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- Public Policy and Administration
- Security and Forensics
- Social Science

2015 International Publisher of Progressive Academic Research

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IGI Global has been a publisher and purveyor of knowledge for more than two and a half decades. The company started as a smaller publishing house releasing roughly ten book publications and a handful of journals annually, predominately focused on the utilization and management of information technology. Twenty-six years later, IGI Global now publishes more than 300+ reference books annually, and maintains a portfolio of more than 2,600+ reference books and 160+ journals; each authored and edited by renowned international experts in the field, in all areas of academic research.

This past year, in an effort to fulfill the requests of academic libraries worldwide, IGI Global released more major reference works than ever before. Roughly 15% of the new titles added in 2014 were major reference works such as handbooks of research (single and two-volume), encyclopedias, and multi-volume book collections. In the upcoming year, we estimate this percentage increasing to 20%+. These comprehensive publications have added insurmountable value to IGI Global’s line of book databases. Reference works such as, the Encyclopedia of Information Science and Technology, Third Edition, a ten-volume set, as well as the Encyclopedia of Business Analytics and Optimization, a five-volume set, are included in IGI Global’s various database offerings at a fraction of their individual list price.

Not only has the volume of books and journals released by IGI Global expanded, but also the content coverage. Several years ago IGI Global began executing a very comprehensive content expansion plan. Now, in addition to our traditional strength in the area of information science and technology research, we are also pleased to offer diverse content in all areas of academic research. Titles within our extensive portfolio have a broad appeal and support all research initiatives and academic programs, with content in more than 200+ discipline areas, including, but not limited to: business, communications, education, engineering, environmental science, healthcare, library science, public policy, social science, the humanities, and more.

Through this content expansion, IGI Global titles are now of interest not only to information professionals and IT consultants, but also to business professionals, practitioners, academicians, researchers, and students across the globe for use in industry and/or academic settings.

Additionally, IGI Global has become a frontrunner in electronic publishing, and we can confidently say that every single title published by IGI Global is offered in both print and electronic format, and that as each new IGI Global title is released, it is immediately added to our advanced InfoSci® online platform with absolutely no embargo, long before the print version is available.

We hope that your institution will greatly benefit from all that the InfoSci® platform and IGI Global content has to offer.

Sincerely,

Lindsay Johnston
Managing Director, IGI Global
Research communities rely on their library’s assistance in finding the right materials for their academic needs. Inside our latest product catalogs, through our website, and in this detailed publication holdings review, you will find a variety of scholarly research publications – from all corners of the globe and across many different disciplines. And while all IGI Global’s books and journals are available individually for print or e-purchase, we also offer several electronic databases to assist institutions with collection development and acquisitions goals:

InfoSci®-Books is IGI Global’s rapidly expanding collection of scholarly reference books. The InfoSci®-Books database collection contains all IGI Global titles published from 2000 to present day. InfoSci®-Books also includes all of our major reference works, such as one and two volume handbooks of research, multivolume books, and encyclopedias. New titles are added to InfoSci®-Books and all smaller database collections on a weekly basis as they go to print – there is no embargo of content.

All of IGI Global’s additional academic book database offerings are subsets of the InfoSci®-Books database collection. These smaller databases currently include four InfoSci®-Book Disciplines collections and 11 InfoSci®-Subject Databases, as well as Book Series and Topic Collections. InfoSci®-Select is a popular “pick and choose” option, as institutions can select an unlimited number of titles across disciplines to create an electronic database that meets the specific needs of their institution. IGI Global databases are truly priced to fit every institution’s budget and designed to provide them with the flexibility they need when developing their institution’s collection. Many other rich, scholarly collections are available in addition to the book-specific collections mentioned above.

The InfoSci® platform is IGI Global’s single, centralized, and personalized gateway for institutions. All IGI Global content, including individual IGI Global e-books, e-journals, and our premier research databases, is available through this state-of-the-art, XML-powered platform and search engine.

This year, IGI Global was excited to announce a new “look” to the InfoSci® platform. Visitors from institutions or corporations with electronic access to IGI Global’s content can now take advantage of several new useful features built specifically to enhance the research searching experience. Stay tuned – advancements will continue to be made in the future without any additional maintenance fees to our customers or partners!

On behalf of IGI Global, I encourage you to share this comprehensive review of our offerings with your institution’s collection development committees and acquisition teams. Should you have any questions about our content, or would like to discuss a free trial or our special purchasing plans through consortiums, partners, and direct purchase, please contact us!

I look forward to cultivating our partnership in the coming year!

Sincerely,

Kristen Stauffer
Director of E-Resources and Library Relations, IGI Global

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Established in 1988, IGI Global, headquartered in Hershey, Pennsylvania, is a leading international academic publisher of books, journals, encyclopedias, teaching cases, proceedings, and databases. Offering premier and peer-reviewed content to international researchers, librarians, and universities, publications focus on the utilization and management of information science and technology in areas such as: education, social science, library and information science, healthcare, business management, public administration, computer science, and engineering.

IGI Global titles are available both individually and in bundled Book Series and Topic Collections. IGI Global currently has close to 50 book series and more than 35 topic collections. With assigned ISBNs, these book collections can be purchased at a fraction of the individual list price. In addition to print books, in 2002, IGI Global’s electronic presence greatly increased with the launch of the InfoSci®-Database platform. Over the past 10+ years, this line of electronic resources has grown to include: InfoSci®-Journals, InfoSci®-Books, InfoSci®-Disciplines, InfoSci®-Subject Databases, InfoSci®-Cases, InfoSci®-OnDemand, InfoSci®-Select, and InfoSci®-Dictionary. These full-text databases are updated weekly and offer access to IGI Global’s entire collection of book, journal and case publications in a state-of-the-art, XML-powered platform and search engine that includes CrossRef, COUNTER compliant statistics, and a single personalized gateway. Whether an institution or consortium subscribes to individual e-books, e-journals or a premier research database, all members can take advantage of the XML-powered research content which enables a full-text searching and ranking system, enhanced search options, scaffolding to display the search pattern, and several options to refine searches with filtering.

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IGI Global is committed to publishing scholarly books, journals, cases, encyclopedias, handbooks of research and electronic resources of the highest quality that provide comprehensive insight into all aspects of information science, business science, medical information science and engineering science. As an internationally-recognized publisher, IGI Global seeks to facilitate the availability of academic excellence and disseminate innovative knowledge worldwide. IGI Global is committed to the highest quality standards and excellent service. This is not just our promise. This is our business.
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A fully-searchable database providing access to chapters from every reference book that IGI Global has published since the year 2000. InfoSci®-Books allows access to over 61,000+ full-text book chapters in the areas of business, public administration, engineering, education, medicine, healthcare, and social science.

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- Lisa Stimatz, MLS, University of North Carolina at Chapel Hill, USA

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- InfoSci®-Communications, Social Science, and Healthcare
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- InfoSci®-Library Science, Information Studies, and Education
  This discipline-focused database examines issues relating to knowledge management, knowledge discovery, information management, library and information science, educational administration, educational technologies, and more.

- InfoSci®-Science, Engineering, and Information Technology
  This discipline-focused database examines issues relating to artificial intelligence, software technologies, computer science, engineering, green technologies, sustainability management, security technologies, forensic science, cyber crime, and more.

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- InfoSci®-Government
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- InfoSci®-Security and Forensics
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IGI Global’s

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“The online system means access to information anywhere and at any time. This is critical for many researchers who are working at home, in the office, or perhaps even abroad.”

- Shirley A. Becker, PhD, Northern Arizona University
**Business & Management** subject area features the latest innovations in organizational and managerial theory and practice in diverse sectors. Titles within this comprehensive collection are ideally designed for use by business professionals, academicians, and global leaders interested in the latest trends, tools, and methodologies in diverse fields including accounting, economics, marketing, manufacturing, human resources, service science, and management.

**Computer Science and Information Technology** subject area around the latest developments in IT advancement and research including interdisciplinary topics in artificial intelligence, computer engineering, software and systems development, web technologies, network architecture, and IT policy and standardization. Academics, graduate students, and IT professionals in various industries will find publications within IGI Global’s Computer Science and Information Technology collection essential in furthering their research and understanding of topics in this dynamic field.

**Education** subject area provides titles encompassing all facets of education from curriculum design and development to various business models and promotional tools within the education sector. Additional topics of interests include learning theory, K-12 education, educational technologies, adult and lifelong learning, special education, educational administration and policy, and higher education. Titles in IGI Global’s Education subject area are designed for academics and educational leaders in search of information on the current and future state of education and the tools enabling successful learning outcomes.

**Engineering** subject area features the latest developments, tools, and applications in a broad range of engineering disciplines including mechanical, environmental, chemical, industrial, electrical, and civil engineering. Researchers, students, business managers, and engineers will find the comprehensive and diverse titles in this collection particularly relevant in furthering their knowledge in the field.

**Environmental Science and Technologies** subject area features research from both industry professionals and academicians surrounding diverse topics in environmental science as well as the tools and technologies being developed in the field. These titles feature diverse research on topics such as climate change, renewable energy, pollution, agriculture, food science, sustainability, and geospatial technologies, and are ideal for students, environmental scientists, researchers, engineers, and policymakers seeking timely and informative research in the field.
Library and Information Science subject area features the latest research on diverse topics relating to knowledge and information management, data science, library science, and research methods. Featuring titles illustrating the latest developments in the field, this collection will be of interest to librarians, archivists, information professionals, and academicians.

Media and Communications subject area seeks to present the latest research in all areas of communication theory, mobile computing, social networking, linguistics, multimedia technology, and telecommunications. Featuring innovative research on diverse topics, this collection is ideally designed for academicians, linguists, theorists, journalists, IT professionals, and students interested in furthering their knowledge in this field.

Medicine, Healthcare, and Life Sciences subject area presents publications on the latest developments in the fields such as medicine, chemistry, biology, and pharmacology. Titles within this subject area seek to uncover the latest trends in the field and are especially appropriate for reference by academicians, medical practitioners, professionals working in healthcare administration, and students.

Public Policy and Administration subject area features diverse titles on the tools, trends, and current state of public policy around the world. Featuring research focusing on topics in crisis and disaster management, government, law, and public sector management, government officials, law professionals, academicians, and students will find this collection relevant to their research needs.

Security and Forensics subject area features publications relating to topics in criminal science, forensics, IT security, cyber warfare, terrorism, and surveillance. Featuring innovative research on diverse topics, this collection is ideally designed for academicians, students, security professionals, and lawmakers interested in learning more about the latest threats to security at both the personal and national level as well as ways to protect against future attacks.

Social Science subject area strives to convey the latest research in a diverse set of topics relating to human behavior and society at large. Students, theorists, and researchers studying in diverse fields such as psychology, sociology, ethics, political science, theology, and economics will find the titles within this collection pertinent to furthering their knowledge in these areas.
Encyclopedias

The Encyclopedia is the largest publication format at IGI Global, consisting of in-depth research coverage and expansive knowledge focused on a particular discipline or topic area. Encyclopedias are published in a minimum of 3 comprehensive volumes, each volume containing approximately 75+ research-based articles. Articles contained in IGI Global Encyclopedias vary in coverage, are more concise than a full-length chapter, and also include key terms and definitions. Due to their exhaustive coverage of broad research areas, Encyclopedias meet the needs of researchers, academics, students, and professionals across disciplines.

Multi-Volume Collections

Multi-Volume Books (MVBs) are a compilation of research-based articles and chapters that the cutting-edge research being conducted in a particular field of study. Coverage of Multi-Volume books are determined by IGI Global’s expert editorial staff, who identify current trends across industries and compile research in those areas in order to meet the demands of knowledge seekers. Multi-Volume Books are published in 3- or 4- volume sets, each volume containing approximately 25+ chapters.

Handbooks of Research

Handbooks of Research are published in 1-, 2-, or 3-volume sets featuring extensive coverage of a particular topic area. Handbooks of Research are organized compendiums of full-length chapters on a variety of topics within the overarching theme. They provide a one-stop resource for individuals seeking the latest research on current tools, applications, methodologies, and theories being studied in their field. Each Handbook of Research volume consists of a minimum of 20 chapters.

Edited/Authored Monographs

Premier Reference Sources include IGI Global’s entire collection of edited and authored books led by a variety of experts across all disciplines. Edited and authored books delve into focused research topics pertinent to those actively studying, researching, and working in the field. Premier Reference Source titles contain approximately 15+ chapters on more focused and niche content compared to IGI Global’s major reference works.

Research Essentials

Research Essentials aim to pack the same high-level research our audiences have come to expect from IGI Global publications, only in a smaller reference format. Publications released as Research Essentials offer succinct discussions on niche topics in a wide variety of subjects. Sized and priced appropriately, these concise, advanced, and timely resources are perfect for supplementary course usage, targeted towards instructors and students, as well as the independent researcher looking for the most recent and innovative research in their field. Research Essentials are published with approximately 8-13 chapters.

Case Books

Case books are edited collections of teaching cases ideally designed for direct course adoption. Teaching cases provide real-world examples and scenarios which can assist the reader in applying research-based methodologies and tools in practical settings. Each case book contains approximately 12-15 teaching cases and is accompanied by teaching notes to assist in course implementation.
To assist in navigating the InfoSci® platform, a helpful User Guide is available.

This User Guide, which will be updated each year as new features are added, reviews each part of the InfoSci® platform with clean, understandable explanations and useful tips as well as screenshots to demonstrate the how-to-use process.

The User Guide begins by showing the end-user how to navigate the main platform landing page, www.igi-global.com/gateway. The guide continues on to detail the options for customization, showing the location of the university library’s current holdings and explaining the E-Database Tools with number coding and a screenshot to give a visual idea of how to navigate the main page, and what resources are available to the user:

Finally, the User Guide provides what may well be the most important information users will need – contact information for IGI Global’s Electronic Resources department and Customer Service team!

Quick Tips

Searching InfoSci®-Books is simple and precise:

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- **Advanced**, provides the option to find a title or journal if users know which one they are looking for or are trying to narrow down larger results quickly—including search by ISBN or ISSN, and ranges of copyright years.

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Citing and Saving is easy with InfoSci®-Books:

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Quick Tips

"...The timeliness of information is improved because publications can be made accessible before the paper copy is received in the mail..."

- Shirley A. Becker, PhD, Northern Arizona University

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**InfoSci®-Books** features international coverage with an author base representing leading scholars from distinguished universities in more than 100 countries. With many distinguished contributors, the database encompasses diverse representation from all areas of the globe.

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Anna Ursyn, PhD, is a Professor and Computer Graphics Area Head at the School of Art and Design, University of Northern Colorado. She combines programming with software and printmaking media, to unify computer generated, and painted images, and mixed-media sculptures. Ursyn had over 30 single juried and invitational art shows, participated in over 100 fine art exhibitions, and published articles and artwork in books and journals. Research and pedagogy interests include integrated instruction in art, science, and computer art graphics. Since 1987 she serves as a Liaison, Organizing and Program Committee member of International IEEE Conferences on Information Visualization (iV) London, UK, and Computer Graphics, Imaging and Visualization Conferences (CGIV). She serves as Chair of the Symposium and Digital Art Gallery D-ART iV, 1997-2011.

John Wang is a professor in the Department of Information & Operations Management at Montclair State University, USA. Having received a scholarship award, he came to the USA and completed his PhD in operations research from Temple University. Due to his extraordinary contributions beyond a tenured full professor, Dr. Wang has been honored with a special range adjustment in 2006. He has published over 100 refereed papers and seven books. He has also developed several computer software programs based on his research findings. He is the Editor-in-Chief of International Journal of Applied Management Science, International Journal of Operations Research and Information Systems, and International Journal of Information Systems and Supply Chain Management. He is the Editor of Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications (six-volume) and the Editor of the Encyclopedia of Data Warehousing and Mining, 1st (two-volume) and 2nd (four-volume). His long-term research goal is on the synergy of operations research, data mining, and cybernetics.

Dr. Thomas J. Holt is a criminologist whose research focuses on computer hacking, malware, and the role of the Internet in facilitating all manners of crime and deviance. He received his Ph.D. in criminology and criminal justice from the University of Missouri-Saint Louis in 2005. His work has been published in various journals including Crime and Delinquency, Deviant Behavior, the Journal of Criminal Justice, and Youth and Society. In addition, he served as the co-editor of the book Corporate Hacking and Technology-Driven Crime with Bernadette Schell.
Dr. Victor C. X. Wang is a Professor of Adult and Community Education (Workforce Education) at Florida Atlantic University. Thus far, Dr. Wang has published nearly 200 refereed books, book chapters, and journal articles. These publications address andragogy and pedagogy, which can be considered as the umbrella under which such areas as andragogical curriculum and program development, management, human performance technology, social justice, global education, diversity and E-learning are addressed.

Currently, Dr. Wang is co-editing the International Journal of Adult Vocational Education and Technology with a world-leading theorist, Dr. Stephen Brookfield, and another world-leading adult education theorist and statistician, Dr. Patricia Cranton. Dr. Wang has won many academic achievement awards, including the Distinguished Faculty Scholarly & Creative Achievement Award. He has had extensive experience in chairing and mentoring doctoral dissertations (including dissertations from University of Auckland, New Zealand). Some of his books have been adopted as required textbooks by major universities in the United States, and in China. In addition, numerous universities worldwide, including some Ivy League Universities, have cataloged his books and journal articles. Dr. Wang’s teaching (including teaching via technology) has reached many states in the United States and China.

Robert A. Schultz received his PhD in philosophy from Harvard University (1971). His dissertation in ethics was under the direction of John Rawls. He was a member of the philosophy faculty at the University of Pittsburgh, Cornell University, and the University of Southern California, and taught courses and published articles and reviews in the fields of ethics, logic, and aesthetics. In 1980, he assumed the position of data processing manager at A-Mark Precious Metals, a Forbes 500 company, then in Beverly Hills, CA. From 1989 through 2007, he was professor and chair of computer information systems and director of academic computing at Woodbury University (Burbank, CA). He regularly taught courses in database applications and design, systems development tools, and the management of information technology. He has numerous publications and presentations in the areas of database design, IT education, and the philosophy of technology. His previous book, Contemporary Issues in Ethics and Information Technology, was published by IRM Press (an imprint of IGI Global) in 2006. He retired and was awarded an emeritus professorship at Woodbury University in 2008. He continues to teach and publish in the areas of IT and ethics and taught an online course on this topic in the Applied Information Management Program at the University of Oregon in early 2009.
Jared Keengwe (University of North Dakota, USA)

Dr. Sagini “Jared” Keengwe is an Associate Professor at the University of North Dakota (UND), USA. Dr. Keengwe is the editor-in-chief of two IGI Global Book Series: Advances in Higher Education and Professional Development and Advances in Early Childhood and K-12 Education. He serves on the editorial review board of several international journals and is also the co-editor-in-chief of the Journal of Education and Learning (EduLearn). Dr. Keengwe’s primary research interests focus on technology integration and constructivist pedagogy in teacher education. He has co-authored more than 65 journal articles and edited more than 10 scholarly textbooks with a focus on instructional technologies both in K-12 and in higher education. Dr. Keengwe’s work in the classroom was honored with the 2011 McDermott Faculty Award for Excellence in Academic Advising. He was also a recipient of the 2010 North Dakota Spirit Faculty Achievement Award, and the 13th (2010) Annual Martin Luther King Jr. Award in recognition of significant contribution in scholarship and service respectively. At the national level, Dr. Keengwe was one of the 10 recipients selected to receive the 2010 American Educational Research Association (AERA) Division K – Teacher Education –Travel Award.

Neeta Baporikar (Ministry of Higher Education, Oman)

Neeta Baporikar is a Professor in the area of Strategic Management and Entrepreneurship. She holds a PhD in Management, an MBA (Distinction), and a Law (Hons.) degree. With more than two and a half decades of industry, consultancy, training, research, and academic experience, she is an Accredited Management Teacher, Qualified Trainer, Doctoral Guide, External Reviewer, Oman Academic Accreditation Authority, and Board Member of Academics and Selection Committee in accredited B-Schools. At the University of Pune, she supervises doctoral research students and collaborates on multidisciplinary research projects with academic/industry associates. Dr. Baporikar has traveled widely across India and abroad for professional and academic assignments. Prior to this, she was Head of Scientific Research, CAS Ministry of Higher Education Oman. A reviewer for many international journals, she has to her credit several referred publications. An established author in the area of Entrepreneurship, Strategy, Management, and Higher Education, her books are widely read and recommended by leading universities/institutes in India and abroad. Dr. Baporikar has been honored with a D. Sc. in Management Studies by the International University of Contemporary Studies, USA in 2009 and was listed in Marquis Who’s Who in the World 2010 and onwards.
In Lee (Western Illinois University, USA)


Bryan Christiansen (PryMarke, LLC, USA)

Bryan Christiansen has been the Chairman of PryMarke, LLC since 2004, a Business Analytics and Management Consultancy in Michigan, USA. He has also been an Adjunct Business Professor since 2003 at Capella University and Ellis University (formerly Ellis College of New York Institute of Technology) in the USA and Gumushane University in Turkey. Born in Washington, DC and raised in Asia, Bryan is fluent in Chinese, Japanese, Spanish, and Turkish and has traveled to 38 countries during his 27-year business career with Global 500 firms and smaller. Bryan is an avid writer on business and education subjects and is currently based in Istanbul, Turkey where he is doing research for future books on these topics. Bryan holds a Bachelor's degree in Marketing from the University of the State of New York and an MBA degree from Capella University. He is expecting to complete his Doctor of Business Administration (DBA) degree in International Business at Walden University soon.
Editors, Authors, and Pioneers

John J. Regazzi (Long Island University, USA)

John Regazzi has spent over 40 years in the electronic information services and IT industries. Called a “pioneer” and “true innovator” of the information industry, he has designed, launched, and managed some of the most innovative and well-known information services in the professional communities including the Engineering Village, Science Direct, Scirus, Scopus, and many other electronic information services dating back to the early days of the online and CDROM industries. John spent most of his career with Reed Elsevier, and retired as CEO of Elsevier Inc. Prior to that, he was CEO of Engineering Information Inc., a company he helped turnaround and which was acquired by Reed Elsevier. In 2005 John assumed the role of Dean of the College of Information and Computer Science of Long Island University (LIU), and recently stepped down from this post and now lectures and directs the Scholarly Communications and Information Innovation Lab at LIU.

Jerzy Kisielnicki (Warsaw University, Poland)

Jerzy Kisielnicki is a full professor and Head of Department of Organization and Management in the School of Economics at Warsaw University. His major areas of research include organization and management, systems analysis, management information systems, process innovation, strategic management, transition systems organizations and management in market economy.

Antonio Cartelli (University of Cassino and Southern Lazio, Italy)

Antonio Cartelli is an associate professor in experimental pedagogy at the University of Cassino and Southern Latium (Italy). He holds degrees in mathematics and physics from “La Sapienza” University in Rome and currently teaches educational and learning technologies and ICT literacy. His main fields of interest are ICT in teaching/learning processes, ICT in knowledge management, and Web technologies in education and e-learning.
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Phille W. Zgheib
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Mohammad Ayub Khan (Tecnologico de Monterrey, Mexico), Diana Bank (Universidad de Las Americas Puebla, Mexico), Edet E. Okon (University of Uyo, Nigeria), Ghassan Al-Qaimari (University of Modern Sciences, UAE), Silvia Lizeth Olivares Olivares (Tecnologico de Monterrey, Mexico), and Salvador Treviño-Martínez (Tecnologico de Monterrey, Mexico)
Diverse Contemporary Issues Facing Business Management Education discusses the issues that are facing both large and small corporations and the students who are seeking employment there. Questioning not only what changes globalization has brought to the business world, but what ways our education system will have to change to keep up, this book is an essential reference source for business owners, educators, students, or anyone interested in the future globalization of the business market.
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Susan McIntyre (Defence Research and Development, Canada), Kimiz Dalkir (McGill University, Canada), Perry Paul (Lessons Learned Consultant, Canadian Armed Forces (Retired), Canada), and Irene C. Kitimbo (McGill University, Canada)

Utilizing Evidence-Based Lessons Learned for Enhanced Organizational Innovation and Change links the theoretical foundation of the "lessons learned" approach with current tools and evidence-based research in support of organizational development. Outlining best practices and emerging research in organizational learning, this publication is ideal for project managers, academicians, researchers, and upper-level students looking to implement these processes into their project management cycle, particularly in the risk management and quality control processes.

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Patricia Ordoñez de Pablos (University of Oviedo, Spain), Luís Jovell Turró (Universidad Autónoma de Barcelona, Spain), Robert D. Tennyson (University of Minnesota, USA), and Jingyuan Zhao (University of Toronto, Canada)

Knowledge Management for Competitive Advantage During Economic Crisis brings together the various approaches that affect the superior organizational performance and the gains they can make over their competitors. By focusing on concepts such as organizational learning and intellectual capital, this book is an indispensable reference source for researchers, practitioners, graduate students, and business managers interested in understanding what approaches are necessary to ensure superior organizational performance.

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Ana Azevedo (Algoritmi R&D Center/University of Minho, Portugal & Polytechnic Institute of Porto/ISCAP, Portugal) and Manuel Filipe Santos (Algoritmi R&D Center/University of Minho, Portugal)

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José Carlos Cavalcanti (Federal University of Pernambuco, Brazil)

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Amandeep Takhar-Lail (University of Bedfordshire, UK) and Ali Ghorbani (Payame Noor University, Iran)

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Hatem El-Gohary (Birmingham City University Business School, UK & Cairo University Business School, Egypt) and Riyad Eid (United Arab Emirates University—School of Business and Economics, UAE & Tanta University Business School, Egypt)

Emerging Research on Islamic Marketing and Tourism in the Global Economy offers in-depth perspectives on the influence of Islam on consumer behavior, the travel industry, product development, and the promotion of goods and services. Focusing on current trends and tools, comprehensive interviews, questionnaires, and emerging research, this book is an essential reference source for academicians, entrepreneurs, policymakers, university students, and educators interested in research surrounding the impact of Islam on business.

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Maria Manuela Cruz-Cunha (Polytechnic Institute of Cavado and Ave, Portugal), Fernando Moreira (Portucalense University, Portugal), and João Varajão (Universidade de Trás-os-Montes e Alto Douro, Portugal)

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Impact of Emerging Digital Technologies on Leadership in Global Business combines relevant theoretical and practical frameworks with the latest research and best practices regarding emergent digital technologies. This book is an essential reference source for professionals, researchers, academics, and students who want to improve their understanding of the strategic role of emerging digital technologies in the success of global business.

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Strategies in Sports Marketing: Technologies and Emerging Trends provides relevant information on the marketing strategies and marketing trends of sporting events by highlighting the plans and tactical operations that sports organizations conduct when integrating marketing strategies. This publication is a comprehensive reference source for students, researchers, academicians, professionals and practitioners, as well as scientists and executive managers interested in the marketing strategies of sporting events.

Approaches to Managing Organizational Diversity and Innovation
Nancy D. Erbe (California State University, USA)
Approaches to Managing Organizational Diversity and Innovation presents a variety of practical tools, skills, and practices that demonstrate effective ways to positively impact the global community through effective management practice. Demonstrating different ways to manage diversity and innovation, this publication provides models and approaches capable of transforming societies, citizens, and professionals so they are better prepared to embrace diversity. This reference work is particularly useful to academicians, professionals, engineers, and students interested in understanding how globalization impacts their discipline or practice.

Post-Keynesian Empirical Research and the Debate on Financial Market Development
Taha Chaiechi (James Cook University, Australia)
Post-Keynesian Empirical Research and the Debate on Financial Market Development integrates the concept of financial intermediaries with Post-Keynesian microeconomic modeling to discuss the relationship between financial markets and systems and macroeconomic development. Discussing key macroeconomic variables such as investment, savings, and productivity growth, this timely resource is essential for students, academicians, as well as finance and economics professionals interested in uncovering the latest research in this field.

Global Perspectives on Achieving Success in High and Low Cost Operating Environments
Göran Roos (Swinburne University, Australia) and Narelle Kennedy (The Kennedy Company Pty Ltd., Australia)
Global Perspectives on Achieving Success in High and Low Cost Operating Environments features a collection of research and case studies addressing contemporary issues surrounding operational success in various regions. Business professionals, managers, academics, and upper-level students will find this publication an essential resource for the latest tools and solutions for managing operations in diverse operating environments.
Smart Manufacturing Innovation and Transformation: Interconnection and Intelligence
Zongwei Luo (University of Hong Kong, China)

Smart Manufacturing Innovation and Transformation: Interconnection and Intelligence covers both theoretical perspectives and practical approaches to smart manufacturing research and development triggered by ubiquitous interconnection and intelligence. This reference work discusses the transformation of manufacturing, the latest developments in smart manufacturing innovation, current and emerging technology opportunities, and market imperatives that enable manufacturing innovation and transformation, useful tools for readers in industry, academia, and government.

Servant Leadership: Research and Practice
Raj Selladurai (Indiana University Northwest, USA) and Shawn Cavanaugh (University of Texas at Dallas, USA)

Servant Leadership: Research and Practice explores the concept of rethinking the leader-subordinate relationship structure through the dissolution of an authoritarian leadership style. This book supports current and future leaders through relevant discussions on methodologies and tools in support of servant leadership, and is designed for use by business managers, executives, scholars, and upper-level students.

Bridging the Gap Between Growth Theory and Policy in Asia: An Extension of the Solow Growth Model
Rup Singh (University of the South Pacific, Fiji)

Bridging the Gap Between Growth Theory and Policy in Asia: An Extension of the Solow Growth Model adds to the works of Solow by showing how his original model can be extended and used for policy, discussing issues in growth econometrics, including the theoretical underpinnings of growth models, and some of the important challenges in empirical studies on economic growth. This simpler manual will be highly useful for applied economists, policy makers, and graduate students.

Women in IT in the New Social Era: A Critical Evidence-Based Review of Gender Inequality and the Potential for Change
Sonja Bernhardt (ThoughtWare, Australia)

Women in IT in the New Social Era: A Critical Evidence-Based Review of Gender Inequality and the Potential for Change aims to bring this topic to the forefront of discussion about what can be done to correct this lopsided gender distribution. This reference work will be an essential guide for government professionals, students, and researchers in the ICT field looking to develop a solution to equalize the retention rate of women in these related fields.

Handbook of Research on Consumerism in Business and Marketing: Concepts and Practices
Hans Ruediger Kaufmann (University of Nicosia, Cyprus & International Business School of Vilnius University, Lithuania), and Mohammad Fateh Ali Khan Panni (City University, Bangladesh)

The Handbook of Research on Consumerism in Business and Marketing: Concepts and Practices features research on diverse topics on consumerism in the global marketplace, focusing on the ways in which businesses can improve their relationships with customers as well as analyze and influence purchasing behavior. As a comprehensive reference source on topics pertaining to consumer management, identity, and behavior, this publication is intended for use by marketing professionals, business managers, students, and academicians.

Remote Workforce Training: Effective Technologies and Strategies
Shalin Hai-Jew (Kansas State University, USA)

Remote Workforce Training: Effective Technologies and Strategies investigates methods, techniques, and systems used in employee training programs. The tools and technologies surveyed within these pages will help employers take their workers beyond the transient skill sets offered by university degrees and into a constant state of learning and practice that will enhance both their productivity and technical abilities on a regular basis. In particular, the knowledge offered by this reference book will be of use to educators and students as well as managers, leaders, administrators, and personnel.
Revolutionizing Enterprise Interoperability through Scientific Foundations

Yannis Charalabidis (University of the Aegean, Greece), Fenareti Lampathaki (National Technical University of Athens, Greece), and Ricardo Jardim-Goncalves (Centre of Technology and Systems (CTS) – UNINOVA, Portugal)

Revolutionizing Enterprise Interoperability through Scientific Foundations offers information on the latest advancements and research for Enterprise Interoperability knowledge as well as core concepts, theories, and future directions. This book is an essential resource for researchers and practitioners in the Enterprise Interoperability field and related areas.

Handbook of Research on Strategic Business Infrastructure Development and Contemporary Issues in Finance

Nilanjan Ray (Royal Thimphu College, Bhutan) and Kaushik Chakraborty (Netaji Mahavidyalaya, India)

The Handbook of Research on Strategic Business Infrastructure Development and Contemporary Issues in Finance discusses the efficiency of good infrastructure and its impact on socioeconomic growth and socioeconomic development in general and addresses contemporary aspects of the strategic financial management essential for accomplishing the objective of wealth maximization in today's challenging and competitive economy. This book is an essential research work for policy makers, government workers and NGO employees, as well as academicians and researchers in the fields of business, finance, marketing, management, accounting, MIS, public administration, economics, and law.

Electronic Payment Systems for Competitive Advantage in E-Commerce

Francisco Liébana-Cabanillas (University of Granada, Spain), Francisco Muñoz-Leiva (University of Granada, Spain), Juan Sánchez-Fernández (University of Granada, Spain), and Myriam Martínez-Fiestas (University of Granada, Spain)

Electronic Payment Systems for Competitive Advantage in E-Commerce provides relevant theoretical frameworks and the latest empirical findings on electronic payment systems in the digital marketplace. Focusing on the importance of e-commerce in business development, including the advantages and disadvantages of e-payments, this book is an essential resource for business professionals who want to improve their understanding of the strategic role of e-commerce in all dimensions, as well as for both researchers and students.

Encyclopedia of Business Analytics and Optimization (5 Vols.)

John Wang (Montclair State University, USA)

The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization, interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal.

Knowledge-Based Economic Policy Development in the Arab World

Ahmed Driouchi (Al Akhawayn University, Morocco)

Knowledge-Based Economic Policy Development in the Arab World focuses on knowledge economy as the most important engine for economic growth and development under the globalizing world economies. This publication analyzes the major issues that constrain further access to knowledge economy in the Arab countries with comparisons in Eastern and Central European economies. Researchers, business practitioners, and academicians interested in new economic and development inclusive growth policies will benefit greatly from the wide variety of discussion in this publication.

Approaches and Processes for Managing the Economics of Information Systems

Theodosis Tsaiakis (Alexander Technological Educational Institute of Thessaloniki, Greece), Theodoros Kargidis (Alexander Technological Educational Institute of Thessaloniki, Greece), and Panagiotis Katsaros (Aristotle University of Thessaloniki, Greece)

Approaches and Processes for Managing the Economics of Information Systems explores the value of information and its management by highlighting theoretical and empirical approaches in the economics of information systems. By providing insight into how information systems can generate economic value for businesses and consumers, this book is essential for professors, students, researchers, and developers of information systems.
The Handbook of Research on Management of Cultural Products: E-Relationship Marketing and Accessibility Perspectives examines the potential value of cultural products and how the support of new technologies can enable non-conventional and social-media marketing relationships. This book aims to highlight an emerging subject area in the field of financial management, management of value creation, and marketing that will be essential for scientists, researchers, and practitioners.

Handbook of Research on Management of Cultural Products: E-Relationship Marketing and Accessibility Perspectives
Lucia Aiello (Universitas Mercatorum, Italy)

The Handbook of Research on Management of Cultural Products: E-Relationship Marketing and Accessibility Perspectives examines the potential value of cultural products and how the support of new technologies can enable non-conventional and social-media marketing relationships. This book aims to highlight an emerging subject area in the field of financial management, management of value creation, and marketing that will be essential for scientists, researchers, and practitioners.

International Cross-Listing of Chinese Firms
Lixian Liu (University of Canberra, Australia)

International Cross-Listing of Chinese Firms examines the successful techniques and strategies that Chinese companies are using within their financial practices. It highlights the foreign-based multinational enterprise theories related to the major international stock markets. By providing the latest theories and research, this book will be beneficial for business practitioners, researchers, and managers interested in the relationship between cross-listing and firm valuation of Chinese firms.

Feral Information Systems Development: Managerial Implications
Donald Vance Kerr (University of the Sunshine Coast, Australia), Kevin Burgess ( Cranfield University, UK), and Luke Houghton (Griffith University, Australia)

Feral Information Systems Development: Managerial Implications seeks to accelerate the collective understandings and implications on the management of business organizations; with an emphasis on theoretical explanations on the development of feral information systems. This book is an essential reference work aimed at providing a more clearly defined and better informed starting point for researchers, consultants, and practitioners who are eager to advance both their practical applications and theoretical understandings of complex and challenging phenomena surrounding FISs.

Cases on Management and Organizational Behavior in an Arab Context
Grace C. Khoury (Birzeit University, Palestine) and Maria C. Khoury (Independent Researcher, Palestine)

Cases on Management and Organizational Behavior in an Arab Context provides a presentation of teaching cases emphasizing the positive and negative experiences on a variety of management topics. Focusing on organizational behavior and leadership in Arab countries and the impact of culture in management and behavior, this publication is an essential resource for business professionals, managers, and upper-level students seeking real-life examples of management and organizational situations in the Arab business world.

Developing Business Strategies and Identifying Risk Factors in Modern Organizations
Madjid Tavana (La Salle University, USA)

Developing Business Strategies and Identifying Risk Factors in Modern Organizations presents new methodologies currently being utilized to formulate and solve strategic issues in order to escape the jeopardy of possible business risks. By highlighting a multitude of sciences and their influences on modern organizations; this book is an essential reference for decision makers and researchers in business, industry, government, and academia.
Marketing in the Cyber Era: Strategies and Emerging Trends
Ali Ghorbani (Payame Noor University, Iran)

Marketing in the Cyber Era: Strategies and Emerging Trends brings together best practices and innovative approaches for effective marketing in today’s economy. Stressing the importance of structure, strategy, leadership, and marketing in the Cyber Era, this book is a useful tool for upper-level students, researchers, professors, and practitioners, as well as executives managing marketing in the academic world. This publication is useful for economists which have not yet received much attention.

Effective Human Resources Management in Small and Medium Enterprises: Global Perspectives
Carolina Machado (University of Minho, Portugal) and Pedro Melo (University of Minho, Portugal)

Effective Human Resources Management in Small and Medium Enterprises: Global Perspectives addresses the issues of HRM in SMEs by providing a channel of communication to disseminate knowledge, including management philosophies, culture, and management practices. With innovate theories and the latest research, this book is useful for academics, researchers, managers, engineers, and other professionals interested in matters of HRM, specific to SMEs in both private and public sectors.

Learning Models for Innovation in Organizations: Examining Roles of Knowledge Transfer and Human Resources Management
Fawzy Soliman (The University of Technology, Australia)

Learning Models for Innovation in Organizations: Examining Roles of Knowledge Transfer and Human Resources Management provides relevant theoretical frameworks and empirical research findings to enhance knowledge management and learning competencies for organizational activities. This book offers assistance and guidance to managers and professionals of innovation firms, learning organizations, and other work communities through tools, techniques, and strategic suggestions for improvement.

Information Quality and Governance for Business Intelligence
William Yeoh (Deakin University, Australia), John Talburt (Deakin University, Australia), and Yinle Zhou (IBM Corporation, USA)

Information Quality and Governance for Business Intelligence presents the latest exchange of academic research on all aspects of practicing and managing information using a multidisciplinary approach that examines its quality for organizational growth. This book is an essential reference tool for researchers, practitioners, and university students specializing in business intelligence, information quality, and information systems.

Economic Behavior, Game Theory, and Technology in Emerging Markets
Bryan Christiansen (PRYMARKE, LLC, USA), Muslum Basilgan (Uludağ University, Turkey), and Emel Yıldız (Gümüşhane University, Turkey)

Economic Behavior, Game Theory, and Technology in Emerging Markets explores game theory and its deep impact in developmental economics, specifically the manner in which it provides a way of formalizing institutions. This is particularly important for emerging economies which have not yet received much attention in the academic world. This publication is useful for academicians, professors, and researchers in this field, but it has also been compiled to meet the needs of non-specialists as well.

Transcultural Marketing for Incremental and Radical Innovation
Bryan Christiansen (PRYMARKE, LLC, USA), Salih Yıldız (Gümüşhane University, Turkey), and Emel Yıldız (Gümüşhane University, Turkey)

Transcultural Marketing for Incremental & Radical Innovation provides in-depth discussion on tactics for improving existing products while inventing completely new products and product categories. This publication will prove to be helpful for scholars, practitioners, and university students who wish to better understand the importance of marketing products and services across different cultures and multiple languages.
International Business Strategy and Entrepreneurship: An Information Technology Perspective
Patricia Ordóñez de Pablos (Universidad de Oviedo, Spain)

International Business Strategy and Entrepreneurship: An Information Technology Perspective discusses innovative solutions to research problems and high performance systems while emphasizing the role of IT and management for sustainable development. This book brings together academics, researchers, entrepreneurs, policy makers and government officers aiming to contribute to the debate of technology related to international business and strategic management.

Perspectives on Theory U: Insights from the Field
Olen Gunnlaugsson (Universite Laval, Canada), Charles Baron (Universite Laval, Canada), and Mario Cayer (Universite Laval, Canada)

Perspectives on Theory U: Insights from the Field brings together an existing array of research on Theory U, including specific aspects of the theory, through diverse interpretations and contexts. While exploring key theoretical concepts and outlining current approaches and blind spots, this book will act as a reference source for researchers and practitioners intending to raise awareness of the applicability of Theory U to colleagues, students, and international business leaders.

Global Strategies in Banking and Finance
Hasan Dinger (Beykent University, Turkey) and Umit Haciyiğil (Beykent University, Turkey)

Global Strategies in Banking and Finance explores the concept of a global industry through case studies, emerging research, and interdisciplinary perspectives applicable to a variety of fields in banking and finance. Within these pages, researchers and practitioners will discover tips, strategies, and best practices towards maintaining a competitive advantage and positioning their respective organizations in the global marketplace.

Progressive Trends in Knowledge and System-Based Science for Service Innovation
Michitaka Kosaka (Japan Advanced Institute of Science and Technology, Japan) and Kunio Shirahada (Japan Advanced Institute of Science and Technology, Japan)

Progressive Trends in Knowledge and System-Based Science for Service Innovation illustrates new approaches to service innovation and new methodologies from the knowledge science and system science perspectives. Practitioners and researchers interested in knowing more about practical theories and successful examples in service science will find this book to be a vital asset to their studies.

Uncovering Essential Software Artifacts through Business Process Archeology
Ricardo Perez-Castillo (University of Castilla-La Mancha, Spain) and Mario G. Piatini (University of Castilla-La Mancha, Spain)

Uncovering Essential Software Artifacts through Business Process Archeology introduces an emerging method of software modernization used to effectively manage legacy systems and company operations supported by such systems. This book presents methods, techniques, and new trends on business process archeology as well as some industrial success stories. Business experts, professionals, and researchers working in the field of information and knowledge management will use this reference source to efficiently and effectively implement and utilize business knowledge.

Innovations in Services Marketing and Management: Strategies for Emerging Economies
Anita Goyal (Indian Institute of Management (IIM), Lucknow, India)

Innovations in Services Marketing and Management: Strategies for Emerging Economies presents insights into marketing strategies and tactical perspectives in both large and small enterprises. The chapters in this book explore case studies, contemporary research, and theoretical frameworks in effective business management, providing students, academicians, researchers, and managers with the resources and insight necessary to identify key trends in emerging economies and build the next generation of innovative services.
Management Science, Logistics, and Operations Research

John Wang (Montclair State University, USA)

Management Science, Logistics, and Operations Research examines related research in decision, management, and other behavioral sciences in order to exchange and collaborate on information among business, industry, and government. This book presents innovative theories and practices in operations research and is essential for practitioners, educators, and researchers for improving business functions and decision making.

Strategic Approaches for Human Capital Management and Development in a Turbulent Economy

Patricia Ordóñez de Pablos (Universidad de Oviedo, Spain) and Robert D. Tennyson (University of Minnesota, USA)

Strategic Approaches for Human Capital Management and Development in a Turbulent Economy examines the useful information developed by individuals presented within organizational structures, routines, and company policies. This book is an international platform for academics, researchers, lecturers, decision makers, and policy makers in order to enhance their understanding and collaboration in issues of knowledge management and human resource management.

Trends in E-Business, E-Services, and E-Commerce: Impact of Technology on Goods, Services, and Business Transactions

In Lee (Western Illinois University, USA)

Trends in E-Business, E-Services, and E-Commerce: Impact of Technology on Goods, Services, and Business Transactions provides insight into issues, challenges, and solutions related to the successful application and management aspects of electronic business. This book will bring together a comprehensive framework for researchers and practitioners in understanding the growing demand of e-business research.

E-Innovation for Sustainable Development of Rural Resources During Global Economic Crisis

Zacharoula Andreopoulou (Aristotle University of Thessaloniki, Greece), Vagis Samathrakis (Alexander Technological Educational Institute of Thessaloniki, Greece), Soulla Louca (University of Nicosia, Cyprus), and Maro Vlachopoulou (University of Macedoncia, Greece)

E-Innovation for Sustainable Development of Rural Resources During Global Economic Crisis brings together a multidisciplinary exchange of knowledge on the application of electronic and mobile innovations towards the sustainable development of the economy. Providing an opportunity to identify effective e-innovation and successful practices, this book is essential for researchers, students, rural developers, and academics in the fields of economics, sustainable development, informatics, and the environment.

Emerging Business Opportunities in Africa: Market Entry, Competitive Strategy, and the Promotion of Foreign Direct Investments

Christopher O. Gekonge (Doing Business in Africa Inc., USA)

Emerging Business Opportunities in Africa: Market Entry, Competitive Strategy, and the Promotion of Foreign Direct Investments presents the basic business modeling for developing appropriate strategies in exploiting these business opportunities in the emerging economy in Africa. This book offers insight into the challenges and successes aiming to encourage researchers and students of business in creating a value for doing business in Africa.
Internet Mercenaries and Viral Marketing: The Case of Chinese Social Media
Mei Wu (University of Macau, China), Peter Jakubowicz (Chinese University of Hong Kong, Hong Kong), and Chengyu Cao (Tsinghua University, China)

Internet Mercenaries and Viral Marketing: The Case of Chinese Social Media presents case studies, textual analysis, media reviews, and in-depth interviews in order to investigate the Chinese “pushing hand” operation from the conceptual perspective of communications and viral marketing. This book is significant to researchers, marketers, and advocates interested in the persuasive influence of social networks.

Dynamics of Competitive Advantage and Consumer Perception in Social Marketing
Avinash Kapoor (Management Development Institute (MDI), India) and Chinmaya Kulshrestha (Management Development Institute (MDI), India)

Dynamics of Competitive Advantage and Consumer Perception in Social Marketing explores important social issues that call for reform such as health care, self-perceptions, and corporate responsibilities to the environment. This publication will guide readers to the understanding and appreciation behind social marketing and how it can be used to positively alter social conscience and create social change.

Building a Competitive Public Sector with Knowledge Management Strategy
Yousif Al-Bastaki (University of Bahrain, Bahrain) and Amani Shajera (University of Bahrain, Bahrain)

Building a Competitive Public Sector with Knowledge Management Strategy explores different practices and theories of knowledge management that will lead to an efficient way of sustaining knowledge in order to improve organizational learning and enhance company performance. By smartly analyzing current research, this publication is beneficial to managers, practitioners, and researchers interested in increasing their knowledge management strategies in the public sector.

Infonomics and the Business of Free: Modern Value Creation for Information Services
John J. Regazzi (Long Island University, USA)

Infonomics and the Business of Free: Modern Value Creation for Information Services addresses the question of whether or not information has become a commodity and examines how infonomics and the “business of free” have changed the way companies must create and market their information to make it most accessible and valuable for their consumers. Information professionals who are responsible for creating valuable information and making services sustainable and accessible will greatly benefit from this book’s unique perspective and complete review of the current research.

Handbook of Research on Strategic Performance Management and Measurement Using Data Envelopment Analysis
Ibrahim Osman (American University of Beirut, Lebanon), Abdel Latef Anouze (American University of Beirut, Lebanon), and Ali Emrouznejad (Aston University, UK)

The Handbook of Research on Strategic Performance Management and Measurement Using Data Envelopment Analysis highlights the advantages of using DEA as a tool to improve business performance and identifying the source of inefficiency in public and private organizations. These recently developed theories and applications of DEA will be useful for policy makers, managers, and practitioners in the areas of sustainable development of our society including environment, agriculture, finance, and higher education sectors.

Collaborative Communication Processes and Decision Making in Organizations
Ephraim Nikoi (University of Arkansas at Little Rock, USA) and Kwasi Boateng (University of Wisconsin - Superior, USA)

Collaborative Communication Processes and Decision Making in Organizations focuses on the role of technology in organizational decision-making processes and activities, providing academics and management teams with current research in the field of virtual teams in organizations. This publication is an essential resource for instructors and students of organization and group communication, and institutions that have networks of offices and employees in multiple geographical locations.
Frameworks of IT Prosumption for Business Development
Malgorzata Parkowska
(University of Economics in Katowice, Poland)

*Frameworks of IT Prosumption for Business Development* investigates the latest empirical research on active use of information technology resources, enabling users with new methodologies, tools, and opportunities to impact application development processes. The objective of this reference book is to mobilize end-users to take a more active role in their own IT solutions, which will in turn assist in the development of best practices in IT at all levels.

Econometric Methods for Analyzing Economic Development
Peter Schaeffer (West Virginia University, USA) and Eugene Kouassi (University of Cocody, Cote d'Ivoire)

*Econometric Methods for Analyzing Economic Development* is a comprehensive collection that focuses on various regions and their economies at a pivotal time in our global economy when the majority of nations continue to struggle with stabilizing their economy. Outlining areas such as employment rates, utilization of natural resources, and regional impacts, this collection of research is an excellent tool for scholars, academics, and professionals looking to expand their knowledge on today's turbulent economy.

Cases on Consumer-Centric Marketing Management
Vimi Jham (Institute of Management Technology, Ghaziabad and Dubai) and Sandeep Puri (Institute of Management Technology, Ghaziabad and Dubai)

*Cases on Consumer-Centric Marketing Management* presents a collection of case studies highlighting the importance of customer loyalty, customer satisfaction, and consumer behavior for marketing strategies. This comprehensive collection provides fundamental research for professionals and researchers in the fields of customer relations, marketing communication, consumer research, and marketing analytics for insights into practical aspects of marketing in any organization.
Research and Development in E-Business through Service-Oriented Solutions

Katalin Tarnay (University of Pannonia, Hungary), Sandor Imre (Budapest University of Technology and Economics, Hungary), and Lai Xu (Bournemouth University, UK)

Research and Development in E-Business through Service-Oriented Solutions highlights the main concepts of e-business as well as the advanced methods, technologies, and aspects that focus on technical support. This book is an essential reference source of professors, students, researchers, developers, and other industry experts in order to provide a vast amount of specialized knowledge sources for promoting e-business.

Implementing IT Business Strategy in the Construction Industry

Goh Bee Hua (National University of Singapore, Singapore)

Implementing IT Business Strategy in the Construction Industry brings together topics on understanding business strategy and competitive advantage and the essential benefits of concepts and technologies for improving efficiency of the construction industry. This reference source is aimed for research professionals who must be prepared to meet the constant changes in the field of information technologies in order to effectively guide their organizations and achieve their respective goals.

Interdisciplinary Perspectives on Business Convergence, Computing, and Legality

Reema Khurana (Institute of Management Technology-Ghaziabad, India) and Rashmi Aggarwal (Institute of Management Technology-Ghaziabad, India)

Interdisciplinary Perspectives on Business Convergence, Computing, and Legality investigates the development of convergent and interoperable systems in business environments, with a particular focus on potential legal implications that emerge when a company begins branching out into domains traditionally occupied by suppliers and consumers. Business and law professionals—both in academia and in practice—will use this book to gain a greater understanding of the growth of convergence in the field of information technologies and how such transformations affect business practices around the world.

Marketing Strategies for Higher Education Institutions: Technological Considerations and Practices

Purnendu Tripathi (IGNOU, India) and Siran Mukerji (IGNOU, India)

Marketing Strategies for Higher Education Institutions: Technological Considerations and Practices provides different aspects of marketing management and technological innovations in all parts of education, including K-12, non-formal, and distance education. Highlighting research studies, experiences, and cases on educational marketing, this book is essential for educational planners, administrators, researchers, and marketing practitioners involved in all aspects of educational development.

Organizations and Social Networking: Utilizing Social Media to Engage Consumers

Eldon Y. Li (California Polytechnic State University, USA & National Chengchi University, Taiwan), Stanley Loh (Lutheran University of Brazil, Brazil), Cain Evans (Birmingham City University, UK), and Fabiana Lorenzi (Lutheran University of Brazil, Brazil)

Organizations and Social Networking: Utilizing Social Media to Engage Consumers provides a broad investigation into the use of social technologies in business practices through theoretical research and practical applications. This book explores the opportunities and challenges brought about by the advent of various 21st century online business web tools and platforms, presenting professionals and researchers in e-business, social marketing, online collaborative communities, and social analytics with cutting-edge information and technological developments to implement in their own enterprises. This book is part of the Advances in Marketing, Customer Relationship Management, and E-Services series collection.
Transdisciplinary Marketing Concepts and Emergent Methods for Virtual Environments

Hatem El-Gohary (Birmingham City University, UK)

Transdisciplinary Marketing Concepts and Emergent Methods for Virtual Environments provides a broad and comprehensive international coverage of subjects, issues, and current trends relating to all areas of online marketing. Emphasis is highly placed on research articles, case studies, and book reviews that seek to connect theory with application, identifying best practices in online marketing. In this respect, this book links both theoretical and practical approaches of online marketing to make a proactive contribution to the field perfect for researchers, practitioners, entrepreneurs, policymakers, and educators.

Consumer Information Systems and Relationship Management: Design, Implementation, and Use

Angela Lin (University of Sheffield, UK), Jonathan Foster (University of Sheffield, UK), and Paul Scifleet (Charles Sturt University, Australia)

Consumer Information Systems and Relationship Management: Design, Implementation, and Use highlights empirical research, theoretical frameworks, and relevant models on the understanding and implementation of consumer information systems. By covering consumer perceptions of practicality and ease of use, this book is essential for practitioners in business environments and strategic management, meeting consumer needs through the use of digital and Web-based technologies as well as recent empirical research findings and design and implementation of innovative information systems. This book is part of the Advances in Marketing, Customer Relationship Management, and E-Services series collection.

Marketing Decision Making and the Management of Pricing: Successful Business Tools

Rajagopal (EGADE Business School, Tecnologico de Monterrey (ITESM), Mexico)

Marketing Decision Making and the Management of Pricing: Successful Business Tools provides the latest research studies, market analysis, and best practices utilized in emerging markets to gain competitive advantage and market leadership. This reference source is useful for corporate managers, undergraduate and graduate students, and researchers intending to increase their knowledge on pricing strategy and profit management. This book is part of the Advances in Marketing, Customer Relationship Management, and E-Services series collection.

Small and Medium Enterprises: Concepts, Methodologies, Tools, and Applications (4 Vols.)

Small and Medium Enterprises: Concepts, Methodologies, Tools, and Applications provides a comprehensive collection of research on current technological developments and organizational perspectives on the scale of small and medium enterprises. This is a reference source suitable for professionals, practitioners, and academics interested in the growth and influence of small and medium businesses on the economy.

Best Practices and New Perspectives in Service Science and Management

Patricia Ordóñez de Pablos (University of Oviedo, Spain) and Robert D. Tennyson (University of Minnesota, USA)

Best Practices and New Perspectives in Service Science and Management provides original research on all aspects of service science, service management, service engineering, and its supporting technology in order to administer cutting-edge knowledge to encourage the improvement of services. This book is essential for researchers and practitioners in the fields of computer science, software management, and engineering.

Business-Oriented Enterprise Integration for Organizational Agility

Robin G. Qiu (Pennsylvania State University, USA)

Business-Oriented Enterprise Integration for Organizational Agility explores technical integration challenges with a focus on identifying a viable solution. This book is essential for researchers and practitioners aiming to better understand how to enable rich, flexible, and responsive information links, in support of the changing business operations across organizations.
E-Logistics and E-Supply Chain Management: Applications for Evolving Business
Deryn Graham (University of Greenwich, UK), Ioannis Manikas (University of Greenwich, UK), and Dimitris Folinias (A.T.E.I. Thessaloniki, Greece)
E-Logistics and E-Supply Chain Management: Applications for Evolving Business explores the creation of integrated supply chains, the developments of virtual business, and the processes of re-engineering for business development. This reference source is useful for researchers, students, and practitioners to provide an academic and pragmatic approach to electronic logistics and supply chain management.

Data Intensive Storage Services for Cloud Environments
Dimoathenis P. Kyriazis (National Technical University of Athens, Greece), Athanasios S. Voulodimos (National Technical University of Athens, Greece), Spyridon V. Gogouvitis (National Technical University of Athens, Greece), and Theodora A. Varvarigou (National Technical University of Athens, Greece)
Data Intensive Storage Services for Cloud Environments provides an overview of the current and potential approaches towards data storage services and its relationship to cloud environments. This reference source brings together research on storage technologies in cloud environments and various disciplines useful for both professionals and researchers.

E-Commerce for Organizational Development and Competitive Advantage
Mehdi Khosrow-Pour (Information Resources Management Association, USA)
E-Commerce for Organizational Development and Competitive Advantage provides insight on the challenges related to the management aspects of e-commerce and its influence over organizational development. With the growing applications of electronic commerce technologies, this reference source is vital for educators, researchers, and managers interested in the advantages of this field.

Managing Customer Trust, Satisfaction, and Loyalty through Information Communication Technologies
Riyad Eid (UAE University, UAE)
Managing Customer Trust, Satisfaction, and Loyalty through Information Communication Technologies highlights technology’s involvement with business processes in different sectors and industries while identifying marketing activities that are affected by its usage. This reference is a vital source for organizational managers, executives, professionals as well as academics and students interested in this constant changing field.
Business Strategies and Approaches for Effective Engineering Management

Saqib Saeed (Bahria University Islamabad, Pakistan), Mohammad Ayoub Khan (C-DAC, Ministry of IT, India), and Rizwan Ahmad (Qatar University, Qatar)

Business Strategies and Approaches for Effective Engineering Management brings together the latest methodologies, principles, practices and tools for engineering management. By providing theoretical analysis and practical applications, this book is a useful reference for industry experts, researchers, and academicians regarding progressive strategies for successful management.

Sociotechnical Enterprise Information Systems Design and Integration

Maria Manuela Cruz-Cunha (Polytechnic institute of Cavado and Ave, Portugal), João Eduardo Varajão (University of Tras-os-Montes e Alto Douro, Portugal), and António Trigo (Polytechnic Institute of Coimbra, Portugal)

Sociotechnical Enterprise Information Systems Design and Integration covers multiple systems and developments in design for businesses and enterprises of all sizes. This publication not only highlights the advancing technology and research in this area, but it also proposes strategic approaches to manage risks and detect errors. Researchers, practitioners, and professionals wishing to expand their knowledge on the most up-to-date information systems and its designs will benefit from this comprehensive compilation of research.

Optimizing, Innovating, and Capitalizing on Information Systems for Operations

John Wang (Montclair University, USA)

Optimizing, Innovating, and Capitalizing on Information Systems for Operations presents research on the applications of information systems and its influence on business and operations management. Highlighting case studies, frameworks and methodologies, this book aims to be useful for practitioners and academics in the fields of decision, management, and social sciences.

Business Innovation, Development, and Advancement in the Digital Economy

Ionica Onciul (Dimitrie Cantemir Christian University, Romania)

Business Innovation, Development, and Advancement in the Digital Economy highlights the competitive advantages on the emerging digital economy. Bringing together the classic economy theory and the developments of new technology, this book provides research on current innovations in the digital economy. It is a vital resource for practitioners, researchers as well as graduate and undergraduate students.

Modern Entrepreneurship and E-Business Innovations

Süphan Nasır (Istanbul University, Turkey)

Modern Entrepreneurship and E-Business Innovations provides advanced knowledge of e-entrepreneurship and innovation as well as emerging theories, applications and challenges. This book is an essential reference source for researchers, practitioners, and executives interested in a better understanding in a comprehensive framework for e-business and entrepreneurship.

Enterprise Development in SMEs and Entrepreneurial Firms: Dynamic Processes

Nelson Oly Ndubisii (Griffith University, Australia) and Sonny Nwankwo (University of East London, UK)

Enterprise Development in SMEs and Entrepreneurial Firms: Dynamic Processes explores the process of enterprise development and its reconstruction of entrepreneurial identities, critical competencies as well as market turnaround for SMEs. This book aims to be a critical resource in the understanding of enterprise strategies adopted and lessons learned for management development. It is a successful resource for students, researchers, and professionals interested in the growth SMEs.
Electronic Commerce and Organizational Leadership: Perspectives and Methodologies
Wilhelmina Djoleto (Youngstown State University, USA & The CulRitzWill Co., USA)
Electronic Commerce and Organizational Leadership: Perspectives and Methodologies investigates the ways in which e-commerce not only affects daily business operations, but more specifically, it focuses on how e-commerce has a great influence on administrative hierarchy and leadership. This unique publication highlights these issues within higher education institutions, but more specifically, in historically black colleges and universities. Researchers and administrators who seek to understand and improve the hierarchical and organizational structures through the deeper investigation of information technology, e-commerce, and its impacts will find this book valuable.

Technology and Financial Crisis: Economical and Analytical Views
Ali Serhan Koyuncugil (Capital Markets Board, Turkey) and Nermin Ozgubas (Baskent University, Turkey).
Technology and Financial Crisis: Economical and Analytical Views investigates financial crises from unique points of view. Not only does this publication consider the broader economical implications that a financial crisis can have on one business or on a whole country, but it also thoroughly discusses the smaller areas which are affected or contribute to the downfall. This book is intended to be of use to the public sector, researchers, practitioners, and educators who are interested in the affects of a financial crises and possible ways to reduce such large scale problems in the future.

Business Strategies for Electrical Infrastructure Engineering: Capital Project Implementation
Reginald Wilson (Redawil Engineering Company, USA) and Hisham Younis (Wayne State University, USA)
Business Strategies for Electrical Infrastructure Engineering: Capital Project Implementation brings together research on informed-decision making within the strategic planning sphere of system integration. By highlighting social responsibility and environmental issues, this book is essential for technologically-literate executives, engineers, application analysts and many more interested in high-impact process evaluation.

Principles, Methodologies, and Service-Oriented Approaches for Cloud Computing
Xiaoyu Yang (University of Reading, UK) and Lu Liu (University of Derby, UK)
Principles, Methodologies, and Service-Oriented Approaches for Cloud Computing investigates the use of service-oriented computing technologies in addressing supporting infrastructure of the cloud, including new challenges in modeling and simulation. This reference source aims to present researchers, engineers and IT professionals with the tools and methods of service-oriented computer in cloud computing.

Consumption Culture in Europe: Insight into the Beverage Industry
Carmen R. Santos (University of Leon, Spain), Stéphane Ganassali (University of Savoie, France), Francesco Casarin (University of Venice, Italy), Pirjo Laaksonen (University of Vaasa, Finland), and Hans Rueediugler Kaufmann (University of Nicosia, Cyprus)
Consumption Culture in Europe: Insight into the Beverage Industry brings the most relevant theories about culture and European market segmentation as well as providing updated data for the evaluation and analyses of the European consumption patterns in the beverage market. This comprehensive collection is an essential tool for policy-makers and those interested in end-markets and consumer affairs.
Supply Chain Management: Concepts, Methodologies, Tools, and Applications (3 Vols.)

Information Resources Management Association (USA)

Supply Chain Management: Concepts, Methodologies, Tools, and Applications is a reference collection which highlights the major concepts and issues in the application and advancements of supply chain management. Including research from leading scholars, this assortment of topics aims to be useful for academics, students and practitioners interested in the continuous study of supply chain management and its influences.

Graph Theory for Operations Research and Management: Applications in Industrial Engineering

Reza Zanjirani Farahani (Kingston University, UK) and Elnaz Miandoabchi (Institute for Trade Studies & Research, Iran)

Graph Theory for Operations Research and Management: Applications in Industrial Engineering presents traditional and contemporary applications of graph theory in the areas of industrial engineering, management science, and applied operations research. This comprehensive collection of research introduces the useful basic concepts of graph theory in real world applications.

Implementation and Integration of Information Systems in the Service Sector

John Wang (Montclair State University, USA)

Implementation and Integration of Information Systems in the Service Sector is a collection of research which discusses the application of information systems as well as the established ideas and advancement in the service sector. This book aims to utilize new theories, technologies, models and methods in order to discover effective functions in this area.

Management Innovations for Intelligent Supply Chains

John Wang (Montclair State University, USA)

Management Innovations for Intelligent Supply Chains provides comprehensive coverage in the latest research and developments of supply chain management. This reference collection provides research, methodologies, and frameworks for researchers, graduate students, and management professionals interested in the incorporation of information systems to better support supply chain management.

Competition, Strategy, and Modern Enterprise Information Systems

Madjid Tavana (La Salle University, USA)

Competition, Strategy, and Modern Enterprise Information Systems provides extensive coverage on the organizational, managerial and technological concerns of enterprise information systems and its executive competitiveness. This collection of original research aims to bring together a discussion for innovative ideas and developments in the EIS field and is essential for researchers, scholars, and practitioners alike.

Principles and Applications of Business Intelligence Research

Richard Herschel (Saint Joseph's University, USA)

Principles and Applications of Business Intelligence Research provides the latest ideas and research on the practices and management of business intelligence without an organization. Including original research, case studies and analysis, this comprehensive collection aims to advance the understanding and implementation of business intelligence.
Chaos and Complexity Theory for Management: Nonlinear Dynamics
Santo Banerjee (Politecnico di Torino, Italy)

Chaos and Complexity Theory for Management: Nonlinear Dynamics explores the chaos and complexity theory and its relationship with the understanding of the natural chaos in the business environment. Utilizing these theories would aid in comprehending the development of businesses as a complex adaptive system. This book is useful for graduate students, scholars and researchers from the chaos and complexity fields.

Knowledge Driven Service Innovation and Management: IT Strategies for Business Alignment and Value Creation
Eng Chew (University of Technology, Sydney) and Petter Gottschalk (BI Norwegian Business School, Norway)

Knowledge Driven Service Innovation and Management: IT Strategies for Business Alignment and Value Creation provides a comprehensive collection of research and analysis on the principles of service, knowledge and organizational capabilities. This book aims to clarify IT strategy procedures and management practices and how they are used to shape a firm’s knowledge organizations as well as facilitate service innovation and customer value co-creation.

Cloud Computing Service and Deployment Models: Layers and Management
Alberto M. Bento (University of Baltimore, USA) and Anil K. Aggarwal (University of Baltimore, USA)

Cloud Computing Service and Deployment Models: Layers and Management presents a collection of diverse perspectives on cloud computing and its vital role in all components of organizations. With its intent to benefit practitioners and industry professionals, this book aims to improve the understanding of cloud computing and tackle related concerns such as change management, security, processing approaches, and much more.

Aligning Enterprise, System, and Software Architectures
Ivan Mistrik (Independent Consultant, Germany), Antony Tang (Swinburne University of Technology, Australia), Rami Bahsoon (University of Birmingham, UK), and Judith A. Stafford (Tufts University, USA)

Aligning Enterprise, System, and Software Architectures covers both theoretical approaches and practical solutions in the processes for aligning enterprise, systems, and software architectures. This book aims to provide architects and researchers with a clear understanding of all three types of architectures.

Customer-Centric Marketing Strategies: Tools for Building Organizational Performance
Hans Ruediger Kaufmann (University of Nicosia, Cyprus) and Mohammad Fateh Ali Khan Panni (City University, Bangladesh)

Customer-Centric Marketing Strategies: Tools for Building Organizational Performance provides a more conceptual understanding on customer-centric marketing strategies as well as revealing the success factors of these concepts. This book will discuss how to improve the organisation's financial and marketing performance.
Cases on Performance Measurement and Productivity Improvement: Technology Integration and Maturity
Mehdi Khosrow-Pour (Information Resources Management Association, USA)

Cases on Performance Measurement and Productivity Improvement: Technology Integration and Maturity highlights the successes and failures which have shaped the modern business as well as the technological solutions taken to improve the organizational system. Providing essential research on these applied innovations, this collection of case studies appeals to both academics and practitioners in the business and IT management fields.

Mobile Applications and Knowledge Advancements in E-Business
In Lee (Western Illinois University, USA)

Mobile Applications and Knowledge Advancements in E-Business covers emerging e-business theories, architectures, and technologies that are emphasized to stimulate and disseminate cutting-edge information into research and business communities in a timely fashion. The secondary objective of this publication is to develop a comprehensive framework of e-business by taking a multidisciplinary approach to understanding e-business and its implications on businesses and economies. This book will serve as an integrated e-business knowledge base for those who are interested in learning about the advancement of e-business theory and practice through a variety of research methods including theoretical, experimental, case, and survey research methods.

Outsourcing Management for Supply Chain Operations and Logistics Services
Dimitris Folinas (Department of Logistics, ATEI-Thessaloniki, Greece)

Outsourcing Management for Supply Chain Operations and Logistics Services is concentrated on the key players of the outsourcing paradigm; the organizations that provide logistics services, the Third Party Logistics (3PL's), as well as their clients, presenting and promoting the lessons learned by their cooperation. Specifically, this publication presents studies which are relevant to practitioners, researchers, students, and clients of the application of the Outsourcing practice on the Logistics and Supply Chain Management services giving emphasis to 3PL's.
Enterprise Information Systems and Advancing Business Solutions: Emerging Models

Madjid Tavana (La Salle University, USA)

Enterprise Information Systems and Advancing Business Solutions: Emerging Models is to provide comprehensive coverage and understanding of various enterprise information systems (EIS) such as enterprise resource planning (ERP) and electronic commerce (EC) and their implications on supply chain management and organizational competitiveness. Design, development, and implementation issues of EIS, including ERP and EC, will be discussed. These include organizational, people, and technological issues of EIS. This title will also expand the knowledge on ERP and EC and in turn help researchers and practitioners to develop suitable strategies, tactics, and operational policies for EIS and for improving communication in organizations.

Organizational Integration of Enterprise Systems and Resources: Advancements and Applications

João Varajão (University of Trás-os-Montes e Alto Douro, Portugal), et al.

Organizational Integration of Enterprise Systems and Resources: Advancements and Applications show that EIS are at the same time responsible for tremendous gains in some companies and tremendous losses in others. Therefore, their adoption should be carefully planned and managed. This title highlights new ways to identify opportunities and overtake trends and challenges of EIS selection, adoption, and exploitation as it is filled with models, solutions, tools, and case studies. The book provides researchers, scholars, and professionals with some of the most advanced research, solutions, and discussions of Enterprise Information Systems design, implementation, and management.

Business Strategy and Applications in Enterprise IT Governance

Wim Van Grembergen (Antwerp Management School, Belgium) and Steven De Haes (Antwerp Management School, Belgium)

Business Strategy and Applications in Enterprise IT Governance emphasizes how organizations enable both businesses and IT people to execute their responsibilities in support of business/IT alignment and the creation of business value from IT enabled corporation investments. This publication distributes leading research that is both academically executed and relevant for practice in the professional IT and business community.

Electronic Commerce Management for Business Activities and Global Enterprises: Competitive Advantages

In Lee (Western Illinois University, USA)

Electronic Commerce Management for Business Activities and Global Enterprises: Competitive Advantages addresses the many new emerging ideas and applications and presents tools and techniques in all aspects of e-commerce development and management in the digital economy. This publication also provides an excellent repository for academicians, researchers, and industry practitioners for their research ideas, theories, and practical experiences.

Decision Making Theories and Practices from Analysis to Strategy

Madjid Tavana (La Salle University, USA)

Decision Making Theories and Practices from Analysis to Strategy is a definitive focus on analytical strategic decision-making. This work is comprised of sophisticated tools and methodologies developed by researchers and vendors to improve decision making for business strategy. Extracting from a wide range of disciplines, including accounting, finance, information systems, international management, marketing, organizational management, operations research, production and operations management, and strategic management, this volume provides a conceptual and a utilitarian guide to decision making, perfect for both researchers and practicing professionals alike.

E-Marketing: Concepts, Methodologies, Tools, and Applications (4 Vols.)

Information Resources Management Association (USA)

E-Marketing: Concepts, Methodologies, Tools, and Applications presents a vital compendium of research detailing the latest case studies, architectures, frameworks, methodologies, and research on e-marketing. With contributions from authors around the world, this three-volume collection presents the most sophisticated research and developments from the field, relevant to researchers, academics, and practitioners alike. In order to stay abreast of the latest research, this book affords a vital look into electronic marketing research.
For Free Trial Access, Please Contact an IGI Global Representative at 717-533-8845 x100 or eresources@igi-global.com
Innovations in Information Systems for Business Functionality and Operations Management

John Wang (Montclair State University, USA)

Innovations in Information Systems for Business Functionality and Operations Management offers a vital compendium of the latest research in IS/IT applications to business and operations management. With experts from around the world giving contributions in the form of case studies, methodologies, best practices, frameworks, and research, this critical collection of cutting-edge state-of-the-art technological references will serve practitioners and academics alike.

Online Advertising and Promotion: Modern Technologies for Marketing

Payam Hanafizadeh (Allameh Tabataba’i University, Iran) and Mehdi Behboudi (Islamic Azad University, Iran)

Online Advertising and Promotion: Modern Technologies for Marketing educates executives and students on how to meet online advertising and Internet marketing challenges for both present and future tactics. The book will outline the changes and challenges that have impacted how online advertising decisions are being made and how decision-makers are getting their information in an online world.

Business Enterprise, Process, and Technology Management: Models and Applications

Venky Shankaranarayam (Singapore Management University, Singapore), J. Leon Zhao (University of Hong Kong Kowloon, Hong Kong), and Jae Kyu Lee (KAIST, South Korea)

Business Enterprise, Process and Technology Management: Models and Applications generates a comprehensive overview of the recent advances in concepts, technologies, and applications that enable advanced business process management in various enterprises. The book can be used by both professionals and academics since it will have contributions from both practitioners and researchers. Additionally, it can be used as a reference when teaching, training, or conducting workshops.

Innovations in Logistics and Supply Chain Management Technologies for Dynamic Economies

ZongWei Luo (The University of Hong Kong, China)

Innovations in Logistics and Supply Chain Management Technologies for Dynamic Economies disseminates supply chain management and applied logistic theories, technology development, innovation, and transformation in various economy sectors upon current, advancing technological opportunities and market imperatives. In a world where efficiency is crucial, applied research and developments in logistics and supply chain management included in this volume is paramount.

Organizational Applications of Business Intelligence Management: Emerging Trends

Richard Herschel (Saint Joseph’s University, USA)

Organizational Applications of Business Intelligence Management: Emerging Trends offers a deep look into the latest research, tools, implementations, frameworks, architectures, and case studies within the field of Business Intelligence Management. Chapter authors from around the world have contributed to the latest research and the cutting edge within the field, offering a vast range of ideas and implementations to help grow and manage global business. Through measurement, analytics, and knowledge management, the book’s authors and editor have collected a vital resource for practitioners to stay up-to-date in the ever burgeoning field.
Successful Customer Relationship Management Programs and Technologies: Issues and Trends
Riyad Eid (Wolverhampton University Business School, UK)

Successful Customer Relationship Management Programs and Technologies: Issues and Trends offers the latest research and developments for researchers, practitioners, and academics alike. This volume contains case studies, methodologies, frameworks, and architectures, and generally the cutting edge in research within the field of customer relationship management. In order to stay abreast of the latest updates in the field, a volume like this serves as a reference book and handbook for semantics and follow-through for managers and decision makers.

Management Information Systems for Enterprise Applications: Business Issues, Research and Solutions
Adamanios Kounpits (ALTEC Software S.A., Greece)

Management Information Systems for Enterprise Applications: Business Issues, Research and Solutions provide the conceptual and methodological foundations that reflect interdisciplinary concerns regarding research in management information systems. This book investigates the future of management information systems by means of analyzing a variety of MIS and service-related concepts in a wide range of disciplines, including computer science, software engineering, operations research, management of information systems, economics, management theory, marketing, business strategy, cognitive sciences, anthropology, humanities and the arts, as well as novel concepts and knowledge from related areas.

Cultural Variations and Business Performance: Contemporary Globalism
Bryan Christiansen (PryMarke LLC, USA)

Cultural Variations and Business Performance: Contemporary Globalism offers the latest research in the field of Business Performance Management in the global economic environment of present conditions. Defined as an approach which necessitates looking at business as a whole entity instead of only at the divisional level, Business Performance Management (BPM) entails reviewing overall business performance to determine how an organization can better reach its goals. Although there are numerous publications on this topic available on the market, relatively few go in depth as to how cultural variations affect business performance in contemporary globalism. The primary objective of this publication is that of reference material for business executives, scholar-practitioners, and university students who need to better understand the importance and influence of transcultural decision-making on business performance in contemporary globalism.

Information Systems Reengineering for Modern Business Systems: ERP, Supply Chain and E-Commerce Management Solutions
Raul Valverde (Concordia University, Canada) and Malleswara Rao Talia (Concordia University, Canada)

Information Systems Reengineering for Modern Business Systems: ERP, Supply Chain and E-Commerce Management Solutions covers different techniques that could be used in an industry in order to reengineer business processes and legacy systems into more flexible systems capable of supporting modern trends such as Enterprise Resource Planning (ERP), supply chain management systems and e-commerce. This reference book also covers other issues related to the reengineering of legacy systems, which include risk management and obsolescence management of requirements.

Measuring Organizational Information Systems Success: New Technologies and Practices
Zakariya Belkhamza (Universiti Malaysia Sabah, Malaysia) and Syed Azzil Wafa (Universiti Malaysia Sabah, Malaysia)

Measuring Organizational Information Systems Success: New Technologies and Practices explores new approaches which may better identify, explain, and improve IS assessment. Professionals and researchers working in information systems success, performance, and measurement will discover emerging theories on information systems success, the latest empirical research findings, and new technologies and practices that encourage successful IS implementation in organizations.

Handbook of Research on E-Business Standards and Protocols: Documents, Data, and Advanced Web Technologies (2 Vols.)
Ejub Kajan (State University of Novi Pazar, Serbia), Frank-Dieter Dorloff (University of Duisburg-Essen, Germany), and Ivan Bedini (Alcatel Lucent, Bell Labs, Ireland)

The Handbook of Research on E-Business Standards and Protocols: Documents, Data, and Advanced Web Technologies contains an overview of new achievements in the field of e-business standards and protocols, offers in-depth analysis of and research on the development and deployment of cutting-edge applications, and provides insight into future trends. This book unites new research that promotes harmony and agreement in business processes and attempts to choreograph business protocols and orchestrate semantic alignment between their vocabularies and grammar.
Cases on Supply Chain and Distribution Management: Issues and Principles
Miti Garg (The Logistics Institute-Asia Pacific, Singapore) and Sumeet Gupta (Shri Shankaracharya Institute of Technology and Management, India)

Cases on Supply Chain and Distribution Management: Issues and Principles introduces readers to a wide selection of case studies covering a multitude of supply chains in different economies of the world and examines major issues related to supply chain management. Concerned with the complete management of the flow of goods, information, and finances, the discipline of supply chain management merits an in-depth analysis. This book presents the latest knowledge on different types of supply chains that exist within the world business environment and acts as catalyst for incumbent global corporations to understand and work around inefficient supply chains, particularly in emerging economies.

Fuzzy Methods for Customer Relationship Management and Marketing: Applications and Classifications
Andreas Meier (University of Fribourg, Switzerland) and Laurent Donze (University of Fribourg, Switzerland)
Fuzzy Methods for Customer Relationship Management and Marketing: Applications and Classifications explores the possibilities and advantages created by fuzzy methods through the presentation of thorough research and case studies. This book covers a variety of possible fuzzy logic approaches to customer relationship management and marketing, making it a valuable resource for not only students and researchers but also executives, managers, marketing experts, and project leaders who are interested in applying fuzzy classification to managerial decisions.

Advancing the Service Sector with Evolving Technologies: Techniques and Principles
John Wang (Montclair State University, USA)
Advancing the Service Sector with Evolving Technologies: Techniques and Principles provides a forum for practitioners and researchers to discuss the application of information systems to service creation, modeling, and evolution. Covering foundational concepts and innovations in service management, service-oriented computing, strategic information systems, and Web services, this collection of research aims to shape future research and promote further growth of the service sector.

Service Science Research, Strategy and Innovation: Dynamic Knowledge Management Methods
N. Delener (State University of New York - OW/Long Island, USA)

Service Science Research, Strategy and Innovation: Dynamic Knowledge Management Methods explores areas such as strategy development, service contracts, human capital management, leadership, management, marketing, e-government, and e-commerce. As this reference includes real-world examples of selected cases, it will give readers the tools to utilize the knowledge and techniques needed to succeed in their careers. The perspectives gained from this volume will engage innovations of service and increased value wherever people interact with each other with resources and technology.

Transformations in E-Business Technologies and Commerce: Emerging Impacts
In Lee (Western Illinois University, USA)
Transformations in E-Business Technologies and Commerce: Emerging Impacts is both a snapshot of e-business as it is today and a window into the many developments already underway. In some cases, it is a forecast of areas yet to be developed. This book will serve as an integrated e-business knowledge base for those who are interested in the advancement of e-business theory and practice through a variety of research methods including theoretical, experimental, case, and survey research methods.

SMEs and Open Innovation: Global Cases and Initiatives
Hakikur Rahman (University of Minho, Portugal) and Isabel Ramos (University of Minho, Portugal)
SMEs and Open Innovation: Global Cases and Initiatives unites knowledge on how SMEs can apply open innovation strategies to development by incorporating academic, entrepreneurial, institutional, research, and empirical cases. This book discusses diverse policy, economic, and cultural issues, including numerous opportunities and challenges surrounding open innovation strategies, studies relevant risks and risk management, analyzes SMEs evolution pattern on adopting open innovation strategies through available measurable criteria, and assists practitioners in designing action plans to empower SMEs.
Supply Chain Sustainability and Raw Material Management: Concepts and Processes
Reza Zanjirani Farahani (Kingston University London, UK), Shabnam Rezapour (Urmia University of Technology, Urmia, Iran), and Laleh Kardar (University of Houston, USA)

Supply Chain Sustainability and Raw Material Management: Concepts and Processes is a comprehensive and up-to-date resource for operations researchers, management scientists, industrial engineers, and other business practitioners and specialists looking for systemic and advanced discussions of supply chain management. By presenting qualitative concepts, quantitative models, and case studies, this book is a coherent guide to creating long-term and sustainable performance for organizations who want to compete in the global market.

Information Systems for Global Financial Markets: Emerging Developments and Effects
Alexander Y. Yap (Elon University, USA)

Information Systems for Global Financial Markets: Emerging Developments and Effects offers focused research on the systems and technologies that provide intelligence and expertise to traders and investors and facilitate the agile ordering processes, networking, and regulation of global financial electronic markets. How these systems work to manipulate, move, and provide intelligence to the stock market is still a mystery to many students, and it is the intent of this book to provide real-world cases and examples that can unveil these systems to business students interested in financial trading, the dynamics of financial electronic markets, and the tactical technologies that facilitate the trading process and trading decisions.

Cases on SMEs and Open Innovation: Applications and Investigations
Hakikur Rahman (University of Minho, Portugal) and Isabel Ramos (University of Minho, Portugal)

Cases on SMEs and Open Innovation: Applications and Investigations reviews applications of open innovation concepts and strategies for SMEs development by accommodating theoretical perspectives and case studies. This book covers diverse aspects of open innovation in terms of policy, politics, economy, and culture, making it a useful reference for researchers, practitioners, and academics.

Trust and Technology in B2B E-Commerce: Practices and Strategies for Assurance
Muneesh Kumar (University of Delhi, India) and Mamta Sareen (University of Delhi, India)

Trust and Technology in B2B E-Commerce: Practices and Strategies for Assurance focuses on various trust issues that emerge from deployment of various e-commerce technologies in inter-organizational relationships. Some of these issues relate to security, privacy, authentication, non-repudiation, quality of web interface, system performance and infrastructure, and environmental factors. The objective of this book is to examine technology-related trust issues relating to security, privacy, authentication, non-repudiation, quality of web interface, system performance and infrastructure, and environmental factors. This book contributes to the ongoing process of developing a framework for understanding the process of building trust in B2B e-commerce.

Cases on E-Readiness and Information Systems Management in Organizations: Tools for Maximizing Strategic Alignment
Mustafa Alishawi (University of Suffolk, UK) and Mohammed Arif (University of Suffolk, UK)

As a repository of cases, Cases on E-Readiness and Information Systems Management in Organizations: Tools for Maximizing Strategic Alignment contains research that readers can use to assess the e-readiness of their own organizations. This book presents principles, tools and techniques about e-readiness while also offering in-depth perspectives on applying the e-readiness model for the purpose of aligning IT with organizational strategies.

Service Life Cycle Tools and Technologies: Methods, Trends, and Advances
Jonathan Lee (National Central University, Taiwan), Shang-Pin Ma (National Taiwan Ocean University, Taiwan), and Alan Liu (National Chung Cheng University, Taiwan)

Service Life Cycle Tools and Technologies: Methods, Trends, and Advances compiles the latest research on SOC life cycles, detailing methodologies and applications in this emerging field. The development of service-oriented applications not only depends on constructing service providers, but also composition and delivery. Service requesters, service providers, and developers alike will benefit from the views and models in a service life cycle. This volume offers research that has been conducted in both industry and academia to address issues in the SOC domain, including service discovery, service composition, and service management. It serves as a vital reference for those on either side of the service field.
Operations Management Research and Cellular Manufacturing Systems: Innovative Methods and Approaches
Vladimír Modrák (Technical University of Košice, Slovakia) and R. Sudhakara Pandian (Kalasalingam University, India)

Operations Management Research and Cellular Manufacturing Systems: Innovative Methods and Approaches presents advancements in the field of operations management, focusing specifically on topics related to layout design for manufacturing environments. Chapters in this book discuss the arrangement of resources used in batch production and provide perspectives on technological, organizational, and social perspectives of cellular manufacturing systems. This book will support teachers, doctoral scholars, decision makers in industry, and students educated in operations management.

Semantic Technologies for Business and Information Systems Engineering: Concepts and Applications
Stefan Smolnik (European Business School, Germany), Frank Teuteberg (University Osnabrueck, Germany), and Oliver Thomas (Saarland University, Germany)

Semantic Technologies for Business and Information Systems Engineering: Concepts and Applications investigates the application of semantic technologies to business and information systems engineering. This reference work assists researchers in academia and industry, students, business process analysts, information management professionals, software engineers, and other practitioners in gaining knowledge on applying semantic technologies for advanced business information systems, in annotating semantics to business processes, and in semantically integrating advanced business information systems.

Inter-O rganizational Information Systems and Business Management: Theories for Researchers
Kishor Vaidya (University of Canberra, Australia & Southern Queensland University, Australia)

Inter-O rganizational Information Systems and Business Management: Theories for Researchers highlights the most influential organizational theories and their applications in Inter-O rganizational Information Systems. It also provides a vital resource for all business and IT professionals from executive managers to information professionals, as this book is based on theories that have been consistently tested and proven to be valid over time. With failure as an acute possibility when implementing any information system, theories that form meaningful conclusions and assist with the understanding of underlying causes of phenomena, as explored in this book, are a necessary first step toward success.

Advanced Analytics for Green and Sustainable Economic Development: Supply Chain Models and Financial Technologies
Zongwei Luo (The University of Hong Kong, Hong Kong)

Advanced Analytics for Green and Sustainable Economic Development: Supply Chain Models and Financial Technologies focuses on the development of innovative techniques and tools that answer urgent questions in the global trend of sustainable economic development. This book will be useful to professionals, researchers, and policymakers working in various disciplines including business and economy, science and engineering, social sciences, government policy, and legal studies. Chapters in this work also provide a valuable resource for business managers concerned with the development of green business and application of low carbon practices.

Business Intelligence Applications and the Web: Models, Systems and Technologies
Marta E. Zorrilla (University of Cantabria, Spain), José-Noberto Mazon (University of Alicante, Spain), Óscar Ferrández (University of Alicante, Spain), Irene Garrigós (University of Alicante, Spain), Florian Daniel (University of Trento, Italy), and Juan Trujillo (University of Alicante, Spain)

Business Intelligence Applications and the Web: Models, Systems and Technologies summarizes current research advances in BI and the Web, emphasizing research solutions, techniques, and methodologies which combine both areas in the interest of building better BI solutions. This comprehensive collection aims to emphasize the interconnections that exist among the two research areas and to highlight the benefits of combined use of BI and Web practices, which so far have acted rather independently, often in cases where their joint application would have been sensible.

Business Intelligence and Agile Methodologies for Knowledge-Based Organizations: Cross-Disciplinary Applications
Asim Abdel Rahman El Sheikh (The Arab Academy for Banking and Financial Sciences, Jordan) and Mouhib Aloukari (Arab International University, Syria)

Business Intelligence and Agile Methodologies for Knowledge-Based Organizations: Cross-Disciplinary Applications highlights the marriage between business intelligence and knowledge management through the use of agile methodologies. Through its fifteen chapters, this book offers perspectives on the integration between process modeling, agile methodologies, business intelligence, knowledge management, and strategic management.
Business and Management

Branding and Sustainable Competitive Advantage: Building Virtual Presence
Avinash Kapoor (Management Development Institute (MDI), India), and Chinmaya Kulshrestha (Management Development Institute (MDI), India)

Branding and Sustainable Competitive Advantage: Building Virtual Presence explores the processes involved in managing brands for long-term sustainable competitive advantage. Managers, professionals, and researchers will better understand the importance of consumers’ perceptions in brand management, gain insight into the interface of positioning and branding, learn about the management of brands over time and in digital and virtual worlds, be able to name new products and brand extensions, and discover how marketers develop and apply strategies to position their brands.

Global Hospitality and Tourism Management Technologies
Patricia Ordóñez de Pablo (Universidad de Oviedo, Spain), Robert D. Tennyson (University of Minnesota, USA) and Jingyuan Zhao (University of Quebec at Montréal, Canada)

Global Hospitality and Tourism Management Technologies is a comprehensive collection which aims to be a source of information for all those interested in tourism and hospitality management, approaches, and trends as well as to cover the emerging research topics which are seek to define the future of IT and cultural development in the 21st century. The book provides a reference for policymakers, government officers, academics, and practitioners interested in understanding applications of IT for tourism and hospitality management.

Customer Relationship Management and the Social and Semantic Web: Enabling Cliens Conexus
Ricardo Colomo-Palacios (Østfold University College, Norway), João Varajão (University of Trás-os-Montes e Alto Douro, Portugal) and Pedro Soto-Acosta (University of Murcia, Spain)

Customer Relationship Management and the Social and Semantic Web: Enabling Cliens Conexus provides an overview of the field of the Semantic Web, social Web and CRM by uniting various research studies from different subfields. Provides a forum for the exchange of research ideas and practices, this book is a reference convergence point for professionals, managers, and researchers in the CRM field together with IT professionals. It also aims to explore the opportunities and challenges confronting organizations in the light of customers in Web 2.0 by using new technologies, including semantic technologies (Web 3.0).

Enterprise Information Systems Design, Implementation and Management: Organizational Applications
Maria Manuela Cruz-Cunha (Polytechnic Institute of Cavado and Ave, Portugal) and Joao Varajao (University of Tras-os-Montes e Alto Duoro, Portugal)

Enterprise Information Systems Design, Implementation and Management: Organizational Applications investigates the creation and implementation of enterprise information systems. Covering a wide array of topics such as flow-shop scheduling, information systems outsourcing, ERP systems utilization, Dietz transaction methodology, and advanced planning systems, it is an essential reference source for researchers and professionals alike.

Cases on Business and Management in the MENA Region: New Trends and Opportunities
El-Khazindar Business Research and Case Center

Cases on Business and Management in the MENA Region: New Trends and Opportunities presents a careful blend of conceptual, theoretical and applied research in regard to the relationship between the Middle East and North Africa region and business and management. This casebook explores the importance of these relationships, aspects related to ICT, accounting, data protection, usability concerning corporate change, and supply chain management. This publication will further theories and practices in this region, as it provides a voice for regional business and management.

Cases on Innovations in Educational Marketing: Transnational and Technological Strategies
Purnendu Tripathi (IGNOU, India) and Siran Mukerji (IGNOU, India)

Cases on Innovations in Educational Marketing: Transnational and Technological Strategies addresses the prominent issues involved in marketing these new educational approaches that are revolutionizing the entire education sector. The institutions highlighted in these cases are emerging as educational corporate entities with a bouquet of academic programs as products endeavoring to augment their presence worldwide with innovative technological strategies. This book provides comparative and comprehensive analysis of technological and transnational strategies in educational marketing on various issues across the world and also the best practices and experiences from a diverse range of countries.

For Free Trial Access, Please Contact an IGI Global Representative at 717-533-8845 x100 or eresources@igi-global.com
Advanced Technologies Management for Retailing: Frameworks and Cases
Eleonora Pantano (University of Calabria, Italy) and Harry Timmermans (Eindhoven University of Technology, The Netherlands)

Advanced Technologies Management for Retailing: Frameworks and Cases contributes to our understanding of applications of new technologies and their impact on the design and development of point of sale systems and on consumers’ behavior. This volume covers a large range of topics that contribute to understanding consumers’ behavior in new computer-aided retailing environments, and how this influences buying behavior while providing useful knowledge on the management of these new technologies and on the management of the digital contents as a reliable teaching resource for teachers and researchers.

Developing Technologies in E-Services, Self-Services, and Mobile Communication: New Concepts
Ada Scupola (Roskilde University, Denmark)

Developing Technologies in E-Services, Self-Services, and Mobile Communication: New Concepts presents perspectives on the management, delivery and consumption, and creation of new e-services technologies and tools. This book reviews specific e-services such as e-banking and e-health initiatives and offers new perspectives useful to industry professionals and academicians interested in the creation, application, and evaluation of a number of different mobile and electronic services.

Innovations in SMEs and Conducting E-Business: Technologies, Trends and Solutions
Maria Manuela Cruz-Cunha (Polytechnic Institute of Cavado and Ave, Portugal) and João Varajão (University of Trás-os-Montes e Alto Douro, Portugal)

Innovations in SMEs and Conducting E-Business: Technologies, Trends and Solutions discusses the main issues, challenges, opportunities and solutions related to electronic business adoption with a special focus on SME while providing researchers, scholars, professionals with some of the most advanced research developments, solutions and discussions of E-Business challenges, impacts and opportunities under the social, managerial and organizational dimensions.

Payment System Technologies and Functions: Innovations and Developments
Masashi Nakajima (Reitaku University, Japan)

Payment System Technologies and Functions: Innovations and Developments is a valuable tool for those interested in learning about payment systems, including academics and researchers, graduate and undergraduate students, relevant parties of authority and central banks, and professionals in payment business who need a complete understanding of payment systems. This reference promotes a better understanding of payment systems and encourages progress on enhancing the safety and efficiency of payment systems.

Hugh M. Pattinson (University of Western Sydney, Australia) and David R. Low (University of Western Sydney, Australia)

E-Novation for Competitive Advantage in Collaborative Globalization: Technologies for Emerging E-Business Strategies highlights new business products, services, strategies, and philosophies drawn from an emerging collaborative information platform. This book explores connections between the development of new e-business technologies with users and consumers, existing and new businesses, and links to social and political visions and strategies.

Managing Adaptability, Intervention, and People in Enterprise Information Systems
Madjid Tavana (LaSalle University, USA)

Managing Adaptability, Intervention, and People in Enterprise Information Systems highlights ongoing issues in three areas having implications for EIS: adaptability, intervention, and people. This book discusses the role of change management, conversion management, readiness management, knowledge management, e-business management, people management, and stakeholder management for a competitive advantage in EIS. Ongoing research on EIS is vital to provide insights into the challenges, issues, and solutions related to management of various aspects of EIS in our ever changing world.
Electronic Business Interoperability: Concepts, Opportunities and Challenges

Ejub Kajan (State University of Novi Pazar, Serbia)

Electronic Business Interoperability: Concepts, Opportunities and Challenges analyzes obstacles, provides critical assessment of existing approaches, and reviews recent research efforts to overcome interoperability problems in electronic business. It serves as a source of knowledge for researchers, educators, students, and industry practitioners to share and exchange their most current research findings, ideas, practices, challenges, and opportunities concerning electronic business interoperability.

Impact of E-Business Technologies on Public and Private Organizations: Industry Comparisons and Perspectives

Ozlem Bak (University of Brighton, UK) and Nola Stair (University of Greenwich, UK)

Impact of E-Business Technologies on Public and Private Organizations: Industry Comparisons and Perspectives assesses the impact of e-business technologies on different organizations, which include higher education institutions, multinational automotive corporations, and health providers. This publication integrates multiple theoretical perspectives on e-business technologies and presents industry-specific comparisons of new practices and trends, making it a comprehensive resource for professionals, students, and researchers.

Supply Chain Optimization, Design, and Management: Advances and Intelligent Methods

Ioannis Minis (University of the Aegean, Greece), Vasileios Zeimpekis (University of the Aegean, Greece), Georgios Dounias (University of the Aegean, Greece), and Nicholas Ampazis (University of the Aegean, Greece)

Supply Chain Optimization, Design, and Management: Advances and Intelligent Methods presents computational intelligence methods for addressing supply chain issues. Emphasis is given to techniques that provide effective solutions to complex supply chain problems and exhibit superior performance to other methods of operations research.

E-Business Managerial Aspects, Solutions and Case Studies

Maria Manuela Cruz-Cunha (Polytechnic Institute of Cavado and Ave, Portugal) and João Varajão (University of Trás-os-Montes e Alto Douro, Portugal)

E-Business Managerial Aspects, Solutions and Case Studies explores the relevance and impact of enterprise competitiveness, its role in the support of new organizational models, and its drivers and barriers to e-business development, as well as the presentation of state-of-the-art enabling technologies. This book provides researchers, scholars, and professionals with some of the most advanced research developments, solutions, and discussions in the e-business discipline.

Supply Chain Optimization, Management and Integration: Emerging Applications

John Wang (Montclair State University, USA)

Supply Chain Optimization, Management and Integration: Emerging Applications presents readers with a rich collection of ideas from researchers who are bridging the gap between the latest in information technology and supply chain management. This book includes theoretical, analytical, and empirical research, comprehensive reviews of relevant research, and case studies of effective applications in the field of SCM. The use of new technologies, methods, and techniques are emphasized by those who have worked with supply chain management across the world for those in the field of information systems.

E-Business Applications for Product Development and Competitive Growth: Emerging Technologies

In Lee (Western Illinois University, USA)

E-Business Applications for Product Development and Competitive Growth: Emerging Technologies is a comprehensive framework of knowledge provided by research and practitioner experts within the e-business research field. Emerging e-business theories, architectures, and technologies are outlined to stimulate information into research and business communities. This book will serve as an integrated e-business knowledge base for those who are interested in the advancement of e-business theory and practice through a variety of research methods including theoretical, experimental, case, and survey research methods.
Digital Culture and E-Tourism: Technologies, Applications and Management Approaches

Miltiadis Lytras (University of Patras, Greece), Patricia Ordóñez de Pablos (University of Oviedo, Spain), Ernesto Damiani (University of Milan, Italy), and Lily Diaz (Aalto University, Finland)

Digital Culture and E-Tourism: Technologies, Applications and Management Approaches presents integrated approaches to culture and tourism, emphasizing content, context and multiple dynamic views of interactions. Covering applications of such technologies as broadband networks, Web 2.0, open source software and semantic knowledge portals, this text is a valuable resource for students, researchers and contributors to the cultivation of a regional and global vision for the management of cultural content and tourism.

Information Systems and New Applications in the Service Sector: Models and Methods

John Wang (Montclair State University, USA)

Information Systems and New Applications in the Service Sector: Models and Methods examines current, state-of-the-art research in the area of service sectors and their interactions, linkages, applications, and support using information systems. This publication encompasses theoretical, analytical, and empirical research, as well as comprehensive reviews of relevant research, technical reports, and case studies of effective applications in this area. The use of new theories, technologies, models, methods, techniques, and principles are emphasized all while explaining the relationship between the advancement of the service sector and the evolution of information systems.

Electronic Supply Network Coordination in Intelligent and Dynamic Environments: Modeling and Implementation

Iraj Mahdavi (Mazandaran University, Iran), Shima Mohebbi (University of Tehran, Iran), and Namjia Cho (Hanyang University, Korea)

Electronic Supply Network Coordination in Intelligent and Dynamic Environments: Modeling and Implementation presents cutting-edge knowledge on scientific approaches to the management of supply networks in a highly informed global environment with abundant dynamic and uncertain challenges. This work examines how new mathematical and conceptual approaches are integrated with information technology and intelligent systems and how these models can help to improve the coordination of supply networks.

Quality Management for IT Services: Perspectives on Business and Process Performance

Claus-Peter Praeg (Fraunhofer Institute for Industrial Engineering, Germany) and Dieter Spath (Fraunhofer Institute for Industrial Engineering, Germany)

Quality Management for IT Services: Perspectives on Business and Process Performance aims to reduce this knowledge gap and to encourage people to spend more time researching the numerous facets of this increasingly important aspect of commercial value adding. Featuring economic and social perspectives along with implementation and practical solutions, this book gives both scientists and practical experts an insight into the many different facets of IT service quality management.

Enterprise Information Systems: Concepts, Methodologies, Tools and Applications (3 Vols.)

Information Resources Management Association (USA)

This three-volume collection, titled Enterprise Information Systems: Concepts, Methodologies, Tools and Applications, provides a complete assessment of the latest developments in enterprise information systems research, including development, design, and emerging methodologies. Experts in the field cover all aspects of enterprise resource planning (ERP), e-commerce, and organizational, social and technological implications of enterprise information systems.

Digital Product Management, Technology and Practice: Interdisciplinary Perspectives

Troy J. Strader (Drake University, USA)

Digital Product Management, Technology and Practice: Interdisciplinary Perspectives covers a wide range of digital product management issues and offers some insight into real-world practice and research findings. Experts in several disciplines from around the world offer their views on the technical, operational, and strategic challenges that face digital product managers and researchers now and in the next several decades.
Anyone interested in microfinance, whether you are a practitioner, a policy maker, or a researcher, will want this book. It addresses the tough questions surrounding technology in microfinance. For instance, what are the disadvantages of technology-enabled microfinance and what will it mean for the inclusiveness and empowerment of the poor?

E-Business Issues, Challenges and Opportunities for SMEs: Driving Competitiveness

E-Business Issues, Challenges and Opportunities for SMEs: Driving Competitiveness discusses the main issues, challenges, opportunities, and solutions related to electronic business adoption, with a special focus on SMEs. Addressing technological, organizational, and legal perspectives in a very comprehensive way, this text aims to disseminate current developments, case studies, new integrated approaches, and practical solutions and applications for SMEs.

Service Intelligence and Service Science: Evolutionary Technologies and Challenges

Service Intelligence and Service Science: Evolutionary Technologies and Challenges presents various opinions, judgments, and ideas on how the use of digitally created worlds is changing the face of e-commerce and extending the use of Internet technologies to create a more immersive experience for customers. The book demonstrates the critical role such areas play in supporting service computing processes, and furthers an increase in current research, best practices, and new directions in service computing technologies and applications.

E-Banking and Emerging Multidisciplinary Processes: Social, Economical and Organizational Models

E-Banking and Emerging Multidisciplinary Processes: Social, Economical and Organizational Models advances the knowledge and practice of all facets of electronic banking. This cutting edge publication emphasizes emerging e-banking theories, technologies, strategies, and challenges to stimulate and disseminate information to research, business, and banking communities. It develops a comprehensive framework for e-banking through a multidisciplinary approach, while taking into account the implications it has on traditional banks, businesses, and economies.

Advanced Technologies for Microfinance: Solutions and Challenges

Advanced Technologies for Microfinance: Solutions and Challenges is the first book to systematically address technology's impact on microfinance. It discusses a wide variety of technology applications that will define the next generation of the microfinance movement and it addresses the tough questions surrounding technology in microfinance. For instance, what are the disadvantages of technology-enabled microfinance and what will it mean for the inclusiveness and empowerment of the service? This dynamic collection is a must-have for anyone interested in microfinance, whether you are a donor, lender, or investor.

Virtual Worlds and E-Commerce: Technologies and Applications for Building Customer Relationships

Virtual Worlds and E-Commerce: Technologies and Applications for Building Customer Relationships presents various opinions, judgments, and ideas on how the use of digitally created worlds is changing the face of e-commerce and extending the use of Internet technologies to create a more immersive experience for customers. The book demonstrates the critical role such areas play in supporting service computing processes, and furthers an increase in current research, best practices, and new directions in service computing technologies and applications.

Digital Business Security Development: Management Technologies

Digital Business Security Development: Management Technologies provides comprehensive coverage of issues associated with maintaining business protection in digital environments. Containing state-of-the-art research relevant to informing business practice, this Premier Reference Source provides base level knowledge for managers who are not specialists in the field as well as advanced undergraduate and postgraduate students undertaking research and further study.
Virtual Technologies for Business and Industrial Applications: Innovative and Synergistic Approaches

N. Raghavendra Rao (VIT University, India)

Virtual Technologies for Business and Industrial Applications: Innovative and Synergistic Approaches provides insight into uncovering the security risks of dynamically created content and how proper content management can greatly improve overall security. This book also researches the security lifecycle, protocols and applications of the Internet and the contemporary solutions to these problems.

Service Science for Socio-Economical and Information Systems Advancement: Holistic Methodologies

Adamantios Kounpis (ALTEC Information & Communication Systems S.A., Greece)

Service Science for Socio-Economical and Information Systems Advancement: Holistic Methodologies sheds light on a variety of issues and shortcomings of service-based economies by analyzing situations and modern practices that improve the way researchers, field practitioners, and ICT professionals account for their core business service-related activities.

Innovation in Business and Enterprise: Technologies and Frameworks

Latif Al-Hakim (University of Southern Queensland, Australia) and Chen Jin (Zhejiang University, China)

Innovation in Business and Enterprise: Technologies and Frameworks focuses on managing innovation through bridging gaps created from theories, relative advantages or competitiveness, social differences, and innovation capability and performance.

Electronic Services: Concepts, Methodologies, Tools and Applications (3 Vols.)

Information Resources Management Association (USA)

Electronic Services: Concepts, Methodologies, Tools and Applications is an all-inclusive research collection covering the latest studies on the consumption, delivery and availability of e-services. This multi-volume book contains over 100 articles, making it an essential reference for the evolving e-services discipline.

Ethical Issues in E-Business: Models and Frameworks

Daniel E. Palmer (Kent State University, USA)

Ethical Issues in E-Business: Models and Frameworks offers audiences a diverse and global perspective concerning the ethical consequences of e-business transactions, e-commerce applications, and technological advancements in secure online use. Discussing the ethical implications and challenges faced through online business communication and dealings, this reference work raises issues and presents studies valuable to not only the business ethicist, but also provides far reaching solutions and examples beneficial to researchers, practitioners and academics defining online boundaries, internet privacy issues, and virtual anonymity.
Global Perspectives on Small and Medium Enterprises and Strategic Information Systems: International Approaches
Pratyush Bharati (University of Massachusetts, USA), In Lee (Western Illinois University, USA), and Abhijit Chaudhury (Bryant University, USA)
Global Perspectives on Small and Medium Enterprises and Strategic Information Systems: International Approaches aims to spread research conducted on SMEs internationally and place it at the disposal of academics, practitioners, consultants, the vendor community, and policymakers. The goal of this book is to highlight the challenges faced by SMEs and how they are coping with the adverse environment through skilful use of IT and technologies such as Web 2.0, Enterprise Resource Planning (ERP), e-commerce, open source software, Business Process Digitization (BPD), and other emerging technologies.

Managing Risk in Virtual Enterprise Networks: Implementing Supply Chain Principles
Stavros Ponis (National Technical University of Athens, Greece)
Managing Risk in Virtual Enterprise Networks: Implementing Supply Chain Principles aspires to set a point-of-reference for scholars and researchers in the fields of Virtual Enterprises and Supply Chain Management who are interested in studying the Risk Management dimension in a cross-disciplinary fashion by applying new ideas and synthetic thinking in already well established concepts. Furthermore, this valuable reference aims to attract both graduate and post-graduate students studying the Risk Management discipline.

Service Science and Logistics Informatics: Innovative Perspectives
Zongwei Luo (University of Hong Kong, HK)
Service Science and Logistics Informatics: Innovative Perspectives addresses the latest in applied service science research and industry practices. Focusing on emerging technologies such as RFID, this book is the perfect reference for business and IT professionals interested in learning more about the practices and guidelines for service innovation in logistics and supply chain management.

Enterprise Information Systems and Implementing IT Infrastructures: Challenges and Issues
S. Parthasarathy (Thiagarajar College of Engineering, India)
Enterprise Information Systems and Implementing IT Infrastructures: Challenges and Issues aims at identifying potential research problems and issues in EIS, allowing research scholars and practitioners to develop suitable strategies and operational policies for EIS, thus improving communication within organizations. The cutting-edge research discussed in this book intends to spark the discussion of new ideas and developments in the field of EIS amongst researchers and practitioners.

Intelligent Systems in Operations: Methods, Models and Applications in the Supply Chain
Barin Nag (Towson University, USA)
Intelligent Systems in Operations: Models, Methods, and Applications introduces current and original research in intelligent systems and methodologies. This book intends to provide knowledge and insights on present and future AI applications in OM from current research-oriented thinking on AI-based systems in the benefit of OM tools and decision in terms of theoretical and empirical models, methods and their comparisons, and actual and proposed applications. A must have for industry professionals seeking examples of AI applications in OM, researchers looking for material that can be extended into further research, and graduate students in the field.
E-Entrepreneurship and ICT Ventures: Strategy, Organization and Technology
Tobias Kollmann (University of Duisburg-Essen, Germany), Andreas Kuckertz (University of Duisburg-Essen, Germany), and Christoph Stöckmann (University of Duisburg-Essen, Germany)

E-Entrepreneurship and ICT ventures: Strategy, Organization and Technology provides a unique and quintessential overview of the current state of conceptual and empirical research at the interface of e-business and entrepreneurship research. Contributing an enhanced understanding of the important interface of e-business and entrepreneurship, this reference publication brings together leading academics and practitioners from around the world, offering essential reading material for students, educators, managers, entrepreneurs, and political decision makers interested in applying and fostering e-business concepts in an entrepreneurial environment.

Pervasive Computing for Business: Trends and Applications
Varuna Godara (University of Western Sydney, Australia)

Pervasive Computing for Business: Trends and Applications examines implications of pervasive computing in order for current and future e-business managers to make responsible decisions regarding where, when, and how to use this technology. With expert international contributions, this collection benefits researchers, academicians, and practitioners interested in this growing field.

Encyclopedia of E-Business Development and Management in the Global Economy (3 Vols.)
In Lee (Western Illinois University, USA)

The Encyclopedia of E-Business Development and Management in the Digital Economy creates a repository for educators, researchers, and industry professionals to collaborate and discuss their research ideas, theories, practical experiences, challenges, and opportunities, while presenting tools and techniques in all aspects of e-business development and management in the digital economy. As the first and most comprehensive book to present aspects from the research, industry, managerial, and technical sides of e-business, this collection appeals to policy-makers, e-business application developers, market researchers, managers, researchers, professors, and undergraduate/graduate students in various academic disciplines.

Transforming E-Business Practices and Applications: Emerging Technologies and Concepts
In Lee (Western Illinois University, USA)

Transforming E-Business Practices and Applications: Emerging Technologies and Concepts presents the latest issues and technologies evolving from business transactions and support. A defining body of research by noted international scholars, this book is an excellent resource for researchers, educators, and professionals and a valuable interdisciplinary addition to academic libraries.

Handbook of Research on Mobile Marketing Management
Key Poustchi (University of Augsburg, Germany) and Dietmar G. Wiedemann (University of Augsburg, Germany)

The Handbook of Research on Mobile Marketing Management provides a compelling and relevant collection of innovative mobile marketing practices. Through offering more than 25 insightful articles by international experts, this reference is a critical resource for advertisers, researchers, and academicians.

Mobilized Marketing and the Consumer: Technological Developments and Challenges
Gonca Telli Yamamoto (Okan University, Turkey)

Mobilized Marketing and the Consumer: Technological Developments and Challenges explores technological developments and widespread issues concerning the explosion of mobile devices in the information age. Providing breakthrough research on topics such as Bluetooth, mobile phones, and online portals, this innovative publication investigates best practices for human interaction with information technologies.
E-Commerce Trends for Organizational Advancement: New Applications and Methods
Mehdi Khosrow-Pour (Information Resources Management Association, USA)
Recent advances in electronic and mobile commerce, precipitated by innovations in technology and user acceptance, have led to subsequent changes in individual and organizational behavior. *E-Commerce Trends for Organizational Advancement: New Applications and Methods* gathers essential research on the changing face of commerce, investigating the development, delivery, and perception of e- and m-commerce systems and tools.

Organizational Advancements through Enterprise Information Systems: Emerging Applications and Developments
Angappa Gunasekaran (University of Massachusetts, USA) and Timothy Shea (University of Massachusetts, USA)
This collection, titled *Organizational Advancements through Enterprise Information Systems: Emerging Applications and Developments*, provides a comprehensive assessment of the latest developments in the EIS revolution. Individual chapters, which focus on Enterprise Resource Planning (ERP) adoption, the integration of enterprise systems, personalized ERP, and the Semantic Web, offer ideas and solutions for the future of the global enterprise.

Innovations in Supply Chain Management for Information Systems: Novel Approaches
John Wang (Montclair State University, USA)
*Innovations in Supply Chain Management for Information Systems: Novel Approaches* presents exemplary research on the interface between these two fields, useful to academicians and practitioners keen on streamlining concurrently both information and materials flows across the supply chains. This advanced publication provides recent examinations as well as future directions of development.

Semantic Enterprise Application Integration for Business Processes: Service-Oriented Frameworks
Gregoris Mentzas (National Technical University of Athens, Greece) and Andreas Friesen (SAP, Inc., Germany)
*Semantic Enterprise Application Integration for Business Processes: Service-Oriented Frameworks* provides methods that allow for access to corporate and customer data independent of where it resides. This advanced reference source provides the latest research findings in the design and development of business processes for academicians, researchers, and practitioners.

Tourism Informatics: Visual Travel Recommender Systems, Social Communities, and User Interface Design
Nalin Sharda (Victoria University, Australia)
*Tourism Informatics: Visual Travel Recommender Systems, Social Communities, and User Interface Design* provides cohesive coverage of cutting-edge e-tourism systems and directions for future research and development. A defining body of research, this innovative collection provides academicians, researchers, and practitioners with a better understanding of this expanding industry.
Social, Managerial, and Organizational Dimensions of Enterprise Information Systems

Maria Manuela Cruz-Cunha
(Polytechnic Institute of Cavado and Ave, Portugal)

Social, Managerial, and Organizational Dimensions of Enterprise Information Systems discusses the technological developments, main issues, challenges, opportunities, and trends impacting every part of small to medium sized enterprises. This advanced publication provides an integrated and progressive view into the benefits and applications of enterprise information systems.

Enterprise Information Systems for Business Integration in SMEs: Technological, Organizational, and Social Dimensions

Maria Manuela Cruz-Cunha
(Polytechnic Institute of Cavado and Ave, Portugal)

Enterprise Information Systems for Business Integration in SMEs: Technological, Organizational, and Social Dimensions discusses the main issues, challenges, opportunities, and trends related to the impact of IT on every part of organizational and inter-organizational environments. This publication provides readers with the most relevant findings in enterprise information systems.

Always-On Enterprise Information Systems for Business Continuance: Technologies for Reliable and Scalable Operations

Nijaz Bajgoric (University of Sarajevo, Bosnia and Herzegovina)

Always-On Enterprise Information Systems for Business Continuance: Technologies for Reliable and Scalable Operations provides an in-depth and scientifically-based analysis of "always-on" enterprise information systems. Valuable to academicians, researchers, and practitioners, this advanced publication identifies methodological frameworks for designing and developing efficient systems and effective strategies for "always-on" implementation.

Leadership in the Digital Enterprise: Issues and Challenges

Pak Yoong (Victoria University of Wellington, New Zealand)

Leadership in the Digital Enterprise: Issues and Challenges presents a collection of research on the aspects, roles, and functions of digital enterprises. A compendium of latest industry findings, this Premier Reference Source provides researchers, academicians, and practitioners with useful theories and references in topics such as e-business, knowledge management, and enterprise planning.

Digital Economies: SMEs and E-Readiness

Stephen M. Mutula (University of Botswana, Botswana)

Digital Economies: SMEs and E-Readiness provides insights into the digital economy and the ability of SMEs to leverage ICTs in overcoming their position in the global business market. This innovative collection provides information for developing strategic objectives and frameworks that promote economic growth, infrastructure development, capacity building, and educational training.

Handbook of Research on Complex Dynamic Process Management: Techniques for Adaptability in Turbulent Environments

Minhong Wang (University of Hong Kong, Hong Kong) and Zhaohao Sun (University of Ballarat, Australia)

The Handbook of Research on Complex Dynamic Process Management: Techniques for Adaptability in Turbulent Environments investigates dynamic processes essential to understanding the need for flexibility and adaptability. This innovative collection covers the development of various strategies, architectures, and techniques for achieving adaptive processes in environments.
**Strategic Intellectual Capital Management in Multinational Organizations: Sustainability and Successful Implications**

Kevin J. O’Sullivan (New York Institute of Technology, USA)

Strategic Intellectual Capital Management in Multinational Organizations: Sustainability and Successful Implications highlights areas of concern in developing strategies for international management of intellectual capital. This innovative publication provides a valuable resource to academics, researchers, and practitioners interested in this area of study.

**Collaborative Business Process Engineering and Global Organizations: Frameworks for Service Integration**

Bhuvan Unhelkar (University of Western Sydney, Australia), Abbas Ghanbari (University of Western Sydney, Australia), and Houman Younessi (Rensselaer at Hartford, USA)

Collaborative Business Process Engineering and Global Organizations: Frameworks for Service Integration provides a full analysis of current collaborative environments while introducing limitations and opportunities for improvement. Offering an enriched reference source, this accomplished collection contains the latest frameworks and methodologies useful for achieving organizational synergy through service integration.

**Mobile and Ubiquitous Commerce: Advanced E-Business Methods**

Milena M. Head (McMaster University, Canada) and Eldon Y. Li (National Chengchi University, Taiwan)

Mobile and Ubiquitous Commerce: Advanced E-Business Methods advances the understanding of management methods, information technology, and their joint application in business processes. This Premier Reference Source covers theories and practices of business technologies, enterprise management, Internet marketing, public policies, transportation and logistics, privacy and law, business ethics, and information technologies related to electronic business.

**Web-Based Green Products Life Cycle Management Systems: Reverse Supply Chain Utilization**

Hsiao-Fan Wang (National Tsing Hua University, ROC)

Web-Based Green Products Life Cycle Management Systems: Reverse Supply Chain Utilization provides a comprehensive review of current and potential research in green management and control. A unique collection in the growing field of green products, this book is a must-have for new and experienced researchers, as well as practitioners and academicians alike.
Encyclopedia of Business Analytics and Optimization (5 Vols.)

John Wang (Montclair State University, USA)

The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management, data visualization, interdisciplinary communication, and others. Through its critical approach and practical application, this book will be a must-have reference for any professional, leader, analyst, or manager interested in making the most of the knowledge resources at their disposal.

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I would like to strongly recommend the *Encyclopedia of Business Analytics and Optimization* as a useful source of information about the new challenges that Business Analytics will have to deal with during the next years. It provides the reader with deep knowledge about recent works in business analytics, and many ideas for solving such hard problems in optimization and business analytics, using powerful methodologies, as machine learning and data mining techniques.

- Dr. Albert Bifet, University of Waikato, Machine Learning Research Group
Modern technology has revolutionized the way in which humans interact and conduct their daily lives. As technology continues to evolve, continual research is necessary in order to document current innovations and inspire future developments.

IGI Global focuses its Computer Science and Information Technology subject area around the latest developments in IT advancement and research including interdisciplinary topics in artificial intelligence, computer engineering, software and systems development, web technologies, network architecture, and IT policy and standardization. Academics, graduate students, and IT professionals in various industries will find publications within IGI Global’s Computer Science and Information Technology collection essential in furthering their research and understanding of topics in this dynamic field.

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Open Source Technology: Concepts, Methodologies, Tools, and Applications (4 Vols.)

Information Resources Management Association (USA)

Open Source Technology: Concepts, Methodologies, Tools, and Applications investigates examples and methodologies in user-generated and freely-accessible content available through electronic and online media. With applications in education, government, entertainment, and more, the technologies explored in these volumes will provide a comprehensive reference for web designers, software developers, and practitioners in a wide variety of fields and disciplines.

Handbook of Research on Artificial Intelligence Techniques and Algorithms (2 Vols.)

Pandian Vasant (Universiti Teknologi PETRONAS, Malaysia)

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Frameworks, Methodologies, and Tools for Developing Rich Internet Applications presents current research and analysis on the use of JavaScript and software development to establish new programs intended for the Web. With an in-depth look at computer and Web programming, this publication emphasizes the benefits and dynamic qualities of these emerging technologies. This book is an essential reference source for academicians, researchers, students, practitioners, and professionals interested in understanding and applying the advances in the combined fields of Web engineering and desktop programming in order to increase computer users’ visual experience and interactivity.
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Yuhui Shi (Xi'an Jiaotong-Liverpool University, China)

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Sungwook Kim (Sogang University, South Korea)

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Raja Ramanathan (Independent Researcher, USA) and Kirtana Raja (IBM, USA)

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The Handbook of Research on Embedded Systems Design provides insights from the computer science community on integrated systems research projects taking place in the European region. This premier reference work takes a look at the diverse range of design principles covered by these projects, from specification at high abstraction levels using standards such as UML and related profiles to intermediate design phases. This work will be invaluable to designers of embedded software, academicians, students, practitioners, professionals, and researchers working in the computer science industry.

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Mehdi Khosrow-Pour (Information Resources Management Association, USA)

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Maria De Marsico (Sapienza University of Rome, Italy), Michele Nappi (University of Salerno, Italy), and Massimo Tistarelli (University of Sassari, Italy)

Face Recognition in Adverse Conditions examines how the field of facial recognition takes these adverse conditions into account when designing more effective applications by discussing facial recognition under real world PIE variations, current applications, and the future of the field of facial recognition research. The work is intended for academics, engineers, and researchers specializing in the field of facial recognition.

Computer Vision and Image Processing in Intelligent Systems and Multimedia Technologies

Muhammad Sarfraz (Kuwait University, Kuwait)

Computer Vision and Image Processing in Intelligent Systems and Multimedia Technologies features timely and informative research on the design and development of computer vision and image processing applications in intelligent agents as well as in multimedia technologies. Covering a diverse set of research in these areas, this publication is ideally designed for use by academicians, technology professionals, students, and researchers interested in uncovering the latest innovations in the field.

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Seppo Virtanen (University of Turku, Finland)

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Imran Ghan (Universiti Teknologi Malaysia, Malaysia), Wan Mohd Nasir Wan Kadir (Universiti Teknologi Malaysia, Malaysia), and Mohammad Nazir Ahmad (Universiti Teknologi Malaysia, Malaysia)

The Handbook of Research on Emerging Advancements and Technologies in Software Engineering presents a comprehensive investigation of the most recent discoveries in software engineering research and practice, with studies in software design, development, implementation, testing, analysis, and evolution. Software designers, architects, and technologists, as well as students and educators, will find this book to be a vital and in-depth examination of the latest notable developments within the software engineering community.

Handbook of Research on High Performance and Cloud Computing in Scientific Research and Education

Marijana Despotović-Zrakić (University of Belgrade, Serbia), Veljko Milutinović (University of Belgrade, Serbia), and Aleksandar Belić (Institute of Physics, Serbia)

High Performance Cloud Computing in Scientific Research and Education presents the applications of cloud computing in various settings, such as scientific research, education, e-learning, ubiquitous learning, and social computing. Providing various examples, practical solutions, and applications of high performance and cloud computing; this book is a useful reference for professionals and researchers discovering the applications of information and communication technologies in science and education, as well as scholars seeking insight on how modern technologies support scientific research.
Handbook of Research on Demand-Driven Web Services: Theory, Technologies, and Applications
Zhao Hao Sun (University of Ballarat, Australia & Hebei Normal University, China) and John Yearwood (Federation University, Australia)
The Handbook of Research on Demand-Driven Web Services: Theory, Technologies, and Applications presents comprehensive and in-depth studies that reveal the cutting-edge theories, technologies, methodologies, and applications of demand-driven Web, mobile, and e-business services. This book provides critical perspectives for researchers and practitioners, lecturers, and undergraduate/graduate students, and professionals in the fields of computing, business, service, management, and government, as well as a variety of readers from all the social strata.

Evaluating Websites and Web Services: Interdisciplinary Perspectives on User Satisfaction
Denis Yannacopoulos (Technological Educational Institute of Piraeus, Greece), Panagiotis Manolitzas (Technical University of Crete, Greece), Nikolaos Matsatsinis (Technical University of Crete, Greece), and Evangelos Grigoroudis (Technical University of Crete, Greece)
Evaluating Websites and Web Services: Interdisciplinary Perspectives on User Satisfaction explores some of the various approaches to the study and assessment of Internet technologies, providing scholars, researchers, developers, and professionals with critical knowledge and an interdisciplinary perspective on e-services in a variety of functional areas, from government and commerce to social media and education.

Computational Intelligence in Remanufacturing
Bo Xing (University of Pretoria, South Africa) and Wen-Jing Gao (Meiyuan Mould Design and Manufacturing Co., Ltd, China)
Computational Intelligence in Remanufacturing introduces various computational intelligence techniques that are applied to remanufacturing-related issues, results, and lessons from specific applications while highlighting future development and research. This book is an essential reference for students, researchers, and practitioners in mechanical, industrial, and electrical engineering.

Global Trends in Intelligent Computing Research and Development
B.K. Tripathy (VIT University, India), D.P. Acharya (VIT University, India)
Global Trends in Intelligent Computing Research and Development brings together recent advances and in-depth knowledge in the fields of knowledge representation and computational intelligence. Highlighting the theoretical advances and their applications to real-life problems, this book is an essential tool for researchers, lecturers, professors, students, and developers who seek insight into knowledge representation and real-life applications.
Exploring Innovative and Successful Applications of Soft Computing
Antonio D. Iacono (Seconda Università degli Studi di Napoli, Italy), Pablo J. Villacorta (Universidad de Granada, Spain), and José L. Verdegay (Universidad de Granada, Spain)

Exploring Innovative and Successful Applications of Soft Computing highlights the applications and conclusions associated with soft computing in different technological environments. Providing potential results based on new trends in the development of these services, this book aims to be a reference source for researchers, practitioners, and students interested in the most successful soft computing methods applied to recent problems.

Enabling the New Era of Cloud Computing: Data Security, Transfer, and Management
Yushi Shen (Microsoft Corporate, USA), Yale Li (Microsoft Corporate, USA), Ling Wu (EMC, USA), Shaofeng Liu (Microsoft Corporate, USA), and Qian Wen (Endronic Corp, USA)

Enabling the New Era of Cloud Computing: Data Security, Transfer, and Management discusses cloud computing as an emerging technology and its critical role in the IT industry upgrade and economic development in the future. This book is an essential resource for business decision makers, technology investors, architects and engineers, and cloud consumers interested in the cloud computing future.

Robotics: Concepts, Methodologies, Tools, and Applications (3 Vols.)
Information Resources Management Association (USA)

Robotics: Concepts, Methodologies, Tools, and Applications explores some of the most recent developments in robotic motion, artificial intelligence, and human-machine interaction. The chapters in this extensive multi-volume reference source provide insight into a wide variety of applications and functional areas: from robots used in educational and medical settings to autonomous military and exploratory machines. Scientists, engineers, specialists, and programmers will all find valuable information and insight within these pages, applicable to a multitude of fields and professions.

Theory and Application of Multi-Formalism Modeling
Marco Gribaudo (Politecnico di Milano, Italy) and Mauro Iacono (Seconda Università degli Studi di Napoli, Italy)

Theory and Application of Multi-Formalism Modeling boldly explores the importance of this topic by gathering experiences, theories, applications, and solutions from diverse perspectives of those involved with multi-formalism modeling. Professionals, researchers, academics, and students in this field will be able to critically evaluate the latest developments and future directions of multi-formalism research.

Pervasive Cloud Computing Technologies: Future Outlooks and Interdisciplinary Perspectives
Lucio Grandinetti (University of Calabria, Italy), Ornella Pisacane (Polytechnic University of Marche, Italy), and Mehdi Sheikhalishahi (University of Calabria, Italy)

Pervasive Cloud Computing Technologies: Future Outlooks and Interdisciplinary Perspectives explores the latest innovations with cloud computing and the impact of these new models and technologies. This book will present case studies and research on the future of cloud computing technologies and its ability to increase connectivity of various entities of the world. It is an essential resource for technology practitioners, engineers, managers, and academics aiming to gain the knowledge of these novel and pervasive technologies.

Communication Infrastructures for Cloud Computing
Hussein T. Mouftah (University of Ottawa, Canada) and Burak Kantarci (University of Ottawa, Canada)

Communication Infrastructures for Cloud Computing presents the issues and research directions for a broad range of cloud computing aspects of software, computing, and storage systems. This book will highlight a broad range of topics in communication infrastructures for cloud computing that will benefit researchers, academics, and practitioners in the active fields of engineering, computer science, and software.
Computer Science and Information Technology

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Irene Marie Portela (Polytechnic Institute of Cávado and Ave, Portugal) and Fernando Almeida (Polytechnic Institute of Gaya, Portugal)

Organizational, Legal, and Technological Dimensions of Information System Administration recognizes the importance of information technology by addressing the most crucial issues, challenges, opportunities, and solutions related to the role and responsibility of an information system. Highlighting various aspects of the organizational and legal implications of system administration, this reference work will be useful to managers, IT professionals, and graduate students who seek to gain an understanding in this discipline.

Research Developments in Computer Vision and Image Processing: Methodologies and Applications
Rajeev Srivastava (Indian Institute of Technology (BHU), India), S. K. Singh (Indian Institute of Technology (BHU), India), and K. K. Shukla (Indian Institute of Technology (BHU), India)

Research Developments in Computer Vision and Image Processing: Methodologies and Applications brings together various research methodologies and trends in emerging areas of application of computer vision and image processing. This book is useful for students, researchers, scientists, and engineers interested in the research developments of this rapidly growing field.

Pandian M. Vasant (Petronas University of Technology, Malaysia)

The Handbook of Research on Novel Soft Computing Intelligent Algorithms: Theory and Practical Applications explores emerging technologies and best practices designed to effectively address concerns inherent in properly optimizing advanced systems. With applications in areas such as bio-engineering, space exploration, industrial informatics, information security, and nuclear and renewable energies, this exceptional reference will serve as an important tool for decision makers, managers, researchers, economists, and industrialists across a wide range of scientific fields.

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Advances and Applications in Model-Driven Engineering explores this relatively new approach in software development that can increase the level of abstraction of the development of tasks. This publication covers the issues of bridging the gaps between various disciplines within software engineering and computer sciences. Professionals, researchers, and students will discover the most current tools and techniques in the field to maximize efficiency of model-driven software development.

Software Design and Development: Concepts, Methodologies, Tools, and Applications (4 Vols.)
Information Resources Management Association (USA)

Software Design and Development: Concepts, Methodologies, Tools, and Applications brings together the best practices and points of view on both theory and practice for the development of software systems. This reference source is essential for researchers, engineers, practitioners, and scholars interested in the latest knowledge on the techniques, applications, and methodologies for the design and development of software systems.

Solutions for Sustaining Scalability in Internet Growth
Mohamed Boudacair (France Telecom, France) and David Binet (France Telecom, France)

Solutions for Sustaining Scalability in Internet Growth investigates current issues impeding the growth of information architecture and explores methods for developing a wider-reaching and ever-evolving internet. The book presents viable solutions to some of the current threats to robust and pervasive information systems, enabling internet actors such as network providers, service providers, vendors, and regulatory bodies to ensure the creation of a more accessible and balanced internet.
Formal Languages for Computer Simulation: Transdisciplinary Models and Applications
Pau Fonseca i Casas
(Polytechnic University of Catalonia, Spain)

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Frameworks for Developing Efficient Information Systems: Models, Theory, and Practice
John Krogsie (Norwegian University of Science and Technology, Norway)

Frameworks for Developing Efficient Information Systems: Models, Theory, and Practice presents research and practices on the advancements in systems analysis and design. These theoretical frameworks and practical solutions are useful for researchers, practitioners, and academicians as this book aims to bridge the communication gap between business managers and system designers.

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Saqib Saeed (Bahria University, Pakistan) and Izzat Alsmadi (Yarmouk University, Jordan)

Knowledge-Based Processes in Software Development focuses on the inherent issues to help practitioners in gaining understanding of software development processes. The best practices highlighted in this publication will be essential to software professionals working in the industry as well as students and researchers in the domain of software engineering in order to successfully employ knowledge management procedures.
Evolution of Cognitive Networks and Self-Adaptive Communication Systems

Thomas D. Lagkas (University of Western Macedonia, Greece), Panagiotis Sarigiannidis (University of Western Macedonia, Greece), Malamati Louta (University of Western Macedonia, Greece), and Periklis Chatzimisios (Alexander T.E.I. of Thessaloniki, Greece)

Evolution of Cognitive Networks and Self-Adaptive Communication Systems offers a comprehensive overview of cognitive networking and self-organizing networks. By learning about the formation of self-aware, self-adaptive, and self-organizing networks, this book is valuable for researchers, instructors, and professionals interested in clarifying the latest trends towards a unified realization for cognitive networking and communication systems.

Network and Traffic Engineering in Emerging Distributed Computing Applications

Jenal H. Abawajy (Deakin University, Australia), Mukkaddin Pathan (Australian National University, Australia), Mustafizur Rahman (The University of Melbourne, Australia), Al-Sakib Khan Pathan (International Islamic University, Malaysia), and Mustafa Mat Deris (Universiti Tun Hussein Onn, Malaysia)

Network and Traffic Engineering in Emerging Distributed Computing Applications provides an in-depth study of network management and traffic engineering for Internet and distributed computing technologies, as well as present emerging technology trends and advanced platforms. This premier reference source for academics, students, researchers, readers, and knowledge seekers puts together some of the critical aspects of Internet and distributed systems.

Electromagnetic Transients in Transformer and Rotating Machine Windings

Charles Q. Su (Petroleum Institute, UAE)

Electromagnetic Transients in Transformer and Rotating Machine Windings explores relevant theoretical frameworks, the latest empirical research findings, and industry-approved techniques in this area. Written for professionals who want to improve their understanding of the electromagnetic transient phenomena in transformer and generator windings, this research volume is also useful for university research students in power system protection, insulation condition monitoring, and incipient fault diagnosis.
Contemporary Theory and Pragmatic Approaches in Fuzzy Computing Utilization
Toly Chen (Feng Chia University, Taiwan)

Contemporary Theory and Pragmatic Approaches in Fuzzy Computing Utilization presents the most innovative systematic and practical facets of fuzzy computing technologies to students, scholars, and academicians, as well as practitioners, engineers, and professionals. This premier reference source focuses on up-to-date theoretical views of fuzzy computing while highlighting empirical approaches useful to real-world utilization.

Graph-Based Methods in Computer Vision: Developments and Applications
Xiao Bai (Beihang University, China), Jian Cheng (Chinese Academy of Sciences, China), and Edwin Hancock (University of York, UK)

Graph-Based Methods in Computer Vision: Developments and Applications presents a sampling of the research issues related to applying graph-based methods in computer vision. These methods have been under-utilized in the past, but use must now be increased because of their ability to naturally and effectively represent image models and data. This publication explores current activity and future applications of this fascinating and ground-breaking topic.

Ethical Data Mining Applications for Socio-Economic Development
Haikur Rahman (University of Minho, Portugal) and Isabel Ramos (University of Minho, Portugal)

Ethical Data Mining Applications for Socio-Economic Development provides an overview of data mining techniques under an ethical lens, investigating developments in research best practices and examining experimental cases to identify potential ethical dilemmas in the information and communications technology sector. The cases and research in this book will benefit scientists, researchers, and practitioners working in the field of data mining, data warehousing, and database management to ensure that data obtained through web-based investigations is properly handled at all organizational levels. This book is part of the Advances in Data Mining and Database Management series collection.

Intelligent Technologies and Techniques for Pervasive Computing
Kostas Kolovratos (University of Athens, Greece), Christos Anagnostopoulos (Ionian University, Greece), and Stathes Hadjiiefthymiades (University of Athens, Greece)

Intelligent Technologies and Techniques for Pervasive Computing provides an extensive discussion of such technologies, theories and practices in an attempt to shed light on current trends and issues in the adoption of pervasive systems. Within its pages, students and practitioners of computer science will find both recent developments and practical applications—an overview of the field and how intelligent techniques can help to improve user experience in the distribution and consumption of pertinent, timely information. This book is part of the Advances in Computational Intelligence and Robotics series collection.

Embedded Computing Systems: Applications, Optimization, and Advanced Design
Mohamed Khalgui (Xidian University, China), Olfat Mosbahi (Xidian University, China), and Antonio Valentini (Xidian University, China)

Embedded Computing Systems: Applications, Optimization, and Advanced Design brings together theoretical and technical concepts of intelligent embedded control systems and their use in hardware and software architectures. By highlighting formal modeling, execution models, and optimal implementations, this reference source is essential for experts, researchers, and technical supporters in the industry and academia.

Investigations into Living Systems, Artificial Life, and Real-World Solutions
George D. Magoulas (University of London, UK)

Investigations into Living Systems, Artificial Life, and Real-World Solutions provides original research on the theoretical and applied aspects of artificial life, as well as addresses scientific, psychological, and social issues of synthetic life-like behavior and abilities. This book is essential for researchers, students, and scientists interested in the emerging discipline of artificial life, to further understand and solve real-world problems.
Efficiency and Scalability Methods for Computational Intellect

Boris Igelnik (BMI Research Inc., USA) and Jacek M. Zurada (University of Louisville, USA)

Efficiency and Scalability Methods for Computational Intellect presents various theories and methods for approaching the problem of modeling and simulating intellect in order to target computation efficiency and scalability of proposed methods. Researchers, instructors, and graduate students will benefit from this current research and will in turn be able to apply the knowledge in an effective manner to gain an understanding of how to improve this field.

Intelligent Image and Video Interpretation: Algorithms and Applications

Jing Tian (Wuhan University of Science and Technology, China) and Li Chen (Wuhan University of Science and Technology, China)

Intelligent Image and Video Interpretation: Algorithms and Applications covers all aspects of image and video analysis from low-level early visions to high-level recognition. This publication highlights how these techniques have become applicable and will prove to be a valuable tool for researchers, professionals, and graduate students working or studying the fields of imaging and video processing.

Technical Challenges and Design Issues in Bangla Language Processing

M.A. Karim (Old Dominion University, USA), M. Kaykobad (Old Dominion University, USA), and M. Murshed (Monash University, Australia)

Technical Challenges and Design Issues in Bangla Language Processing addresses the difficulties as well as the overwhelming benefits associated with creating programs and devices that are accessible to the speakers of the Bangla language. Professionals, students, and researchers interested in expanding the fields of computing, information and knowledge management, and communication technologies in the non-English realm will benefit from this comprehensive collection of research.

Software Development Techniques for Constructive Information Systems Design

Khalid A. Buragga (King Faisal University, Saudi Arabia) and Noor Zaman (King Faisal University, Saudi Arabia)

Software Development Techniques for Constructive Information Systems Design focuses the aspects of information systems and software development as a merging process. This reference source pays special attention to the emerging research, trends, and experiences in this area which is bound to enhance the reader’s understanding of the growing and ever-adapting field. Academics, researchers, students, and working professionals in this field will benefit from this publication's unique perspective.

Modeling Applications and Theoretical Innovations in Interdisciplinary Evolutionary Computation

Wei-Chiang Samuelson Hong (Oriental Institute of Technology, Taiwan)

Modeling Applications and Theoretical Innovations in Interdisciplinary Evolutionary Computation provides comprehensive research on emerging theories and its aspects on intelligent computation. Particularly focusing on breaking trends in evolutionary computing, algorithms, and programming, this publication serves to support professionals, government employees, policy and decision makers, as well as students in this scientific field.

Advanced Engineering and Computational Methodologies for Intelligent Mechatronics and Robotics

Shahin Sirouspour (McMaster University, Canada)

Advanced Engineering and Computational Methodologies for Intelligent Mechatronics and Robotics presents the latest innovations and technologies in the fields of mechatronics and robotics. These innovations are applied to a wide range of applications for robotic-assisted manufacturing, complex systems, and many more. This publication is essential to bridge the gap between theory and practice for researchers, engineers, and practitioners from academia to government.
Multimodal Biometrics and Intelligent Image Processing for Security Systems

Marina L. Gavrilo (University of Calgary, Canada) and Maruf Monwar (Carnegie Mellon University, USA)

Multimodal Biometrics and Intelligent Image Processing for Security Systems provides an in-depth description of existing and fresh fusion approaches for multimodal biometric systems. Covering relevant topics affecting the security and intelligent industries, this reference will be useful for readers from both academia and industry in the areas of pattern recognition, security, and image processing domains.

Intelligent Systems for Optical Networks Design: Advancing Techniques

Yousef S. Kavian (Shahid Chamran University, Iran) and Z. Ghassemlooy (Northumbria University, UK)

Intelligent Systems for Optical Networks Design: Advancing Techniques is a comprehensive collection of research focused on theoretical and practical aspects of intelligent methodologies as applied to real world problems. This reference source is useful for research and development engineers, scholars, and students interested in the latest development in the area of intelligent systems for optical networks design.

Open Source Software Dynamics, Processes, and Applications

Stefan Koch (Bogazici University, Turkey)

Open Source Software Dynamics, Processes, and Applications is a multidisciplinary collection of research and approaches on the applications and processes of open source software. Highlighting the development processes performed by software programmers, the motivations of its participants, and the legal and economic issues that have been raised; this book is essential for scholars, students, and practitioners in the fields of software engineering and management as well as sociology.

Designing, Engineering, and Analyzing Reliable and Efficient Software

Hardeep Singh (Guru Nanak Dev University, India) and Kulwant Kaur (Apeejay Institute of Management, India)

Designing, Engineering, and Analyzing Reliable and Efficient Software discusses and analyzes various designs, systems, and advancements in software engineering. With its coverage on the integration of mathematics, computer science, and practices in engineering, this book highlights the importance of ensuring and maintaining reliable software and is an essential resource for practitioners, professors, and students in these fields of study.


Yuri P. Pavlov (Bulgarian Academy of Sciences, Bulgaria) and Rumen D. Andreiev (Bulgarian Academy of Sciences, Bulgaria)

Decision Control, Management, and Support in Adaptive and Complex Systems: Quantitative Models presents an application and demonstration of a new mathematical technique for descriptions of complex systems. This comprehensive collection contains scientific results in the field of contemporary approaches to adaptive decision making that is essential for researchers, scholars, and students alike.
Industrial Production Management in Flexible Manufacturing Systems
Ioan Constantin Dima
(Valahia University of Târgoviste, Romania)

*Industrial Production Management in Flexible Manufacturing Systems* addresses the present discussions surrounding flexible production systems based on automation, robotics and cybernetics as they continue to replace the traditional production systems. The book also covers issues related to the use of multi-servicing in the operational management of the industrial production and its scheduling systems.

Development of Distributed Systems from Design to Application and Maintenance
Nik Bessis (University of Derby, UK)

*Development of Distributed Systems from Design to Application and Maintenance* is a collection of research on the strategies used in the design and development of distributed systems applications. Including research from traditional and emerging areas of applied distributed systems, this book covers theories and practices and encourages future development for researchers, practitioners, industry professionals as well as academicians.

Swarm Intelligence for Electric and Electronic Engineering
Girolamo Fornarelli (Politecnico di Bari, Italy) and Luciano Mescia (Politecnico di Bari, Italy)

*Swarm Intelligence for Electric and Electronic Engineering* provides an exchange of knowledge on the advances, discoveries and improvements of swarm intelligence in electric and electronic engineering. This comprehensive collection aims to bring together new swarm-based algorithms and its approaches on complex problems and various real-world applications.

Innovations in XML Applications and Metadata Management: Advancing Technologies
José Carlos Ramalho (Universidade do Minho, Portugal), Alberto Simões (Universidade do Minho, Portugal), and Ricardo Queirós (Instituto Politécnico do Porto, Portugal)

*Innovations in XML Applications and Metadata Management: Advancing Technologies* addresses the functionality between XML and its related technologies towards application development based on previous concepts. This book aims to highlights the variety of purposes for XML applications and how the technology development brings together advancements in the virtual world.

Diagnostic Test Approaches to Machine Learning and Commonsense Reasoning Systems
Xenia Naidenova (Military Medical Academy, Russia) and Dmitry Ignatov (National Research University Higher School of Economics, Russia)

*Diagnostic Test Approaches to Machine Learning and Commonsense Reasoning Systems* surveys, analyzes, and compares the most effective algorithms for mining all kinds of logical rules. Global academics and professionals in related fields have come together to create this unique knowledge-sharing resources which will serve as a forum for future collaborations.

Advances in Abstract Intelligence and Soft Computing
Yingxu Wang (University of Calgary, Canada)

*Advances in Abstract Intelligence and Soft Computing* brings together the latest research in computer science, theoretical software engineering, cognitive science & informatics and their influence on the processes of natural and machine intelligence. This book is collection of widespread research in the constant expansions on this emerging discipline.
Robotic Vision: Technologies for Machine Learning and Vision Applications

Jose Garcia-Rodriguez (University of Alicante, Spain) and Miguel A. Cazorla Quevedo (University of Alicante, Spain)

Robotic Vision: Technologies for Machine Learning and Vision Applications is a comprehensive collection which highlights a solid framework for understanding existing work and planning future research. This book includes current research on the fields of robotics, machine vision, image processing and pattern recognition that is important to applying machine vision methods in the real world.

Data Mining: Concepts, Methodologies, Tools, and Applications (4 Vols.)

Information Resources Management Association (USA)

Data Mining: Concepts, Methodologies, Tools, and Applications is a comprehensive collection of research on the latest advancements and developments of data mining and how it fits into the currently technological world. This book serves as an essential resource for academic researchers and practicing IT professionals.

Migrating Legacy Applications: Challenges in Service Oriented Architecture and Cloud Computing Environments

Anca Daniela Ionita (University Politehnica of Bucharest, Romania), Marin Litoiu (York University, Canada), and Grace Lewis (CMU Software Engineering Institute, USA)

Migrating Legacy Applications: Challenges in Service Oriented Architecture and Cloud Computing Environments presents a closer look at the partnership between service oriented architecture and cloud computing environments while analyzing potential solutions to challenges related to the migration of legacy applications. This reference is essential for students and university scholars alike.

Agile and Lean Service-Oriented Development: Foundations, Theory, and Practice

Xiaofeng Wang (Free University of Bozen/Boitano, Italy), Nour Ali (Lero - The Irish Software Engineering Research Centre, Ireland), Isidro Ramos (Universitat Politècnica de València, Spain), and Richard Vidgen (Hull University Business School, UK)

Agile and Lean Service-Oriented Development: Foundations, Theory and Practice explores the groundwork of service-oriented and agile and lean development and the conceptual basis and experimental evidences for the combination of the two approaches. Highlighting the best tools and guidelines for these developments in practice, this book is essential for researchers and practitioners in the software development and service computing fields.

Distributed Computing Innovations for Business, Engineering, and Science

Alfred Waising Loo (Lingnan University, Hong Kong)

Distributed Computing Innovations for Business, Engineering, and Science is a collection of widespread research providing relevant theoretical frameworks and research findings on the applications of distributed computing innovations to the business, engineering and science fields. This book aims to provide insights on the management of expertise, knowledge, information and organizational development in distributed computing.

Cognitive Informatics for Revealing Human Cognition: Knowledge Manipulations in Natural Intelligence

Yingxu Wang (University of Calgary, Canada)

Cognitive Informatics for Revealing Human Cognition: Knowledge Manipulations in Natural Intelligence presents a comprehensive collection of research that builds a link between natural and life sciences with informatics and computer science. This book is practical for researchers, practitioners and graduate students interested in investigating cognitive mechanisms and the human information processes.
Recent Algorithms and Applications in Swarm Intelligence Research
Yuhui Shi (Xi’an Jiaotong-Liverpool University, China)
Recent Algorithms and Applications in Swarm Intelligence Research highlights the current research on swarm intelligence algorithms and its applications. Including research, survey and application papers, this book serves as a platform for students and scholars interested in achieving their studies on swarm intelligence algorithms and their applications.

Handbook of Research on Computational Intelligence for Engineering, Science, and Business
Siddhartha Bhattacharyya (RCC Institute of Information Technology, India) and Paramartha Dutta (Visva-Bharati University, India)
The Handbook of Research on Computational Intelligence for Engineering, Science, and Business discusses the computational intelligence approaches, initiatives and applications in the engineering, science and business fields. This reference aims to highlight computational intelligence as no longer limited to computing-related disciplines and can be applied to any effort which handles complex and meaningful information.

Developing and Applying Biologically-Inspired Vision Systems: Interdisciplinary Concepts
Marc Pomplun (University of Massachusetts Boston, USA) and Junichi Suzuki (University of Massachusetts Boston, USA)
Developing and Applying Biologically-Inspired Vision Systems: Interdisciplinary Concepts provides interdisciplinary research which evaluates the performance of machine visual models and systems in comparison to biological systems. Blending the ideas of current scientific knowledge and biological vision, this collection of new ideas intends to inspire approaches and cross-disciplinary research to applications in machine vision.

Intelligent Techniques in Recommendation Systems: Contextual Advancements and New Methods
Satyadnananda Dehuri (Fakir Mohan University, India), Manas Ranjan Patra (Berhampur University, India), Bijan Bihari Misral (Silicon Institute of Technology, India), and Alok Kumar Jagadev (Siksha O Anusandhan University, India)
Intelligent Techniques in Recommendation Systems: Contextual Advancements and New Methods is a comprehensive collection of research on the latest advancements of intelligence techniques and their application to recommendation systems and how this could improve this field of study.

Developments in Data Extraction, Management, and Analysis
Nhung Do (LaTrobe University, Australia), J. Wenny Rahayu (LaTrobe University, Australia), and Torab Torabi (LaTrobe University, Australia)
Developments in Data Extraction, Management, and Analysis is an essential collection of research on the area of data mining and analytics. Presenting the most recent perspectives on data mining subjects and current issues, this book is useful for practitioners and academics alike.
Integrated Information and Computing Systems for Natural, Spatial, and Social Sciences

Claus-Peter Rückemann (Westfälische Wilhelms-Universität Münster (WWU), Germany)

Integrated Information and Computing Systems for Natural, Spatial, and Social Sciences covers a carefully selected spectrum of most up to date issues, revealing the benefits, dynamism, potential, and challenges of information and computing system application scenarios and components from a wide spectrum of prominent disciplines. This comprehensive collection offers important guidance on the development stage of the universal solution to information and computing systems for researchers as well as industry decision makers and developers.

Open-Source Technologies for Maximizing the Creation, Deployment, and Use of Digital Resources and Information

Shalin Hai-Jew (Kansas State University, USA)

Open-Source Technologies for Maximizing the Creation, Deployment, and Use of Digital Resources and Information highlights the global importance of open-source technologies in higher and general education. Written for those working in education and professional training, this collection of research explores a variety of issues related to open-source in education, such as its practical underpinnings, requisite cultural competence in global open-source, strategies for employing open-source in online learning and research, the design of an open-source networking laboratory, and other endeavors. It aims to enhance workplace practices in harnessing open-source resources in a time of budgetary frugality.

Emerging Applications of Natural Language Processing: Concepts and New Research

Sivaji Bandyopadhyay (Jadavpur University, India), Sudip Kumar Naskar (Dublin City University, Ireland), and Asif Ekbal (Indian Institute of Technology Patna, India)

Emerging Applications of Natural Language Processing: Concepts and New Research provides pertinent and vital information that researchers, postgraduate, doctoral students, and practitioners are seeking. This book compiles the latest discoveries and advances in NLP methodologies and applications while expanding upon various topics regarding the future of NLP.

Artificial Higher Order Neural Networks for Modeling and Simulation

Ming Zhang (Christopher Newport University, USA)

Artificial Higher Order Neural Networks for Modeling and Simulation introduces artificial Higher Order Neural Networks (HONNs) to professionals working in the fields of modeling and simulation, and explains that HONN is an open-box artificial neural network tool as compared to traditional artificial neural networks. Including details of the most popular HONN models, this book provides an opportunity for practitioners in the field of modeling and simulations to understand and know how to use HONNS in their area of expertise.

Trends in Developing Metaheuristics, Algorithms, and Optimization Approaches

Peng-Yeng Yin (National Chi Nan University, Taiwan)

Trends in Developing Metaheuristics, Algorithms, and Optimization Approaches provides insight on the latest advances and analysis of technologies in metaheuristics computing. Offering widespread coverage on topics such as genetic algorithms, differential evolution, and ant colony optimization, this book aims to be a forum researchers, practitioners, and students who wish to learn and apply metaheuristics computing.

Innovations in Database Design, Web Applications, and Information Systems Management

Keng Siau (University of Nebraska-Lincoln, USA)

Innovations in Database Design, Web Applications, and Information Systems Management presents ideal research in the areas of database theory, systems design, ontologies, and many more. Including examples of the convergence of ideas from various disciplines aimed at improving and developing the theory of information technology and management of information resources, this book is useful for researchers and practitioners in the IT field.
Applications and Developments in Grid, Cloud, and High Performance Computing
Emmanuel Udoh (National College, USA)

Applications and Developments in Grid, Cloud, and High Performance Computing provides insight into the current trends and emerging issues by investigating grid and cloud evolution, workflow management, and the impact new computing systems have on the education fields as well as the industries. This book is practical for both researchers and IT professionals.

Adaptive Web Services for Modular and Reusable Software Development: Tactics and Solutions
Guadalupe Ortiz (University of Cádiz, Spain) and Javier Cubo (University of Málaga, Spain)

Adaptive Web Services for Modular and Reusable Software Development: Tactics and Solutions includes current research on the area of Web service adaptation while embarking upon the different aspects related to Web services. This collection provides an overview of existing solutions for service adaption in different development scopes as well as covers a wide variety of challenges which emerge. It aims to keep industry professionals as well as academic researchers up to date with the latest research results.

Cloud Computing Advancements in Design, Implementation, and Technologies
Shadi Aljawarneh (Isra University, Jordan)

Cloud Computing Advancements in Design, Implementation, and Technologies outlines advancements in the state-of-the-art, standards, and practices of cloud computing, in an effort to identify emerging trends that will ultimately define the future of the cloud. A valuable reference for academics and practitioners alike, this title covers topics such as virtualization technology, utility computing, cloud application services (SaaS), grid computing, and services computing.

Production and Manufacturing System Management: Coordination Approaches and Multi-Site Planning
Paolo Renna (University of Basilicata, Italy)

Production and Manufacturing System Management: Coordination Approaches and Multi-Site Planning presents relevant theoretical frameworks and most recent research findings in this area. This extensive collection of works provides significant theories for research students and scholars to carry out their continuous research as well as practitioners who aim to improve upon their understanding of distributed production planning.

Formal and Practical Aspects of Domain-Specific Languages: Recent Developments
Marjan Mernik (University of Maribor, Slovenia)

Formal and Practical Aspects of Domain-Specific Languages: Recent Developments is a collection of academic works containing current research on all aspects of domain-specific language. This book is a comprehensive overview in the computer language field and aims to be essential for scholars and practitioners in the software engineering fields by providing new results and answers to open problems in DSL research.

Pervasive and Ubiquitous Technology Innovations for Ambient Intelligence Environments
Kevin Curran (University of Ulster, UK)

Pervasive and Ubiquitous Technology Innovations for Ambient Intelligence Environments is a collection of research on the subject matter of human computer interaction, ubiquitous computing, embedded systems, and other areas of study which contribute to ambient intelligence. This comprehensive reference aims to broaden the overall knowledge on ambient intelligence as it relates to the aspects of modern life.
Organizational Efficiency through Intelligent Information Technologies
Vijayan Sugumaran (Oakland University, USA)
Organizational Efficiency through Intelligent Information Technologies explores various aspects of design and development of intelligent technologies by bringing together the latest in research in the fields of information systems, intelligent agents, collaborative works, and much more. This reference source also highlights insights on agent-based problem solving as well as economic issues and organizational impact.

Innovations and Approaches for Resilient and Adaptive Systems
Vincenzo De Florio (University of Antwerp and IBBT, Belgium)
Innovations and Approaches for Resilient and Adaptive Systems is a comprehensive collection of knowledge on increasing the notions and models in adaptive and dependable systems. This book aims to enhance the awareness of the role of adaptability and resilience in system environments for researchers, practitioners, educators, and professionals alike.

Intelligent Planning for Mobile Robotics: Algorithmic Approaches
Ritu Tiwari (ABV – Indian Institute of Information, India), Anupam Shukla (ABV – Indian Institute of Information, India), and Rahul Kala (School of Systems Engineering, University of Reading, UK)
Intelligent Planning for Mobile Robotics: Algorithmic Approaches presents content coverage on the basics of artificial intelligence, search problems, and soft computing approaches. This collection of research provides insight on both robotics and basic algorithms and could serve as a reference book for courses related to robotics, special topics in AI, planning, applied soft computing, applied AI, and applied evolutionary computing. It is an ideal choice for research students, scholars, and professors alike.

Complexity Science, Living Systems, and Reflexing Interfaces: New Models and Perspectives
Franco Orsucci (University College London, UK) and Nicoletta Sala (University of Lugano, Switzerland)
Complexity Science, Living Systems, and Reflexing Interfaces: New Models and Perspectives is a collection of research provided by academics and scholars aiming to introduce important advancements in areas such as artificial intelligence, evolutionary computation, neural networks, and much more. This scholarly piece will provide contributions that will define the line of development in complexity science.

Meta-Heuristics Optimization Algorithms in Engineering, Business, Economics, and Finance
Pandian Vasant (Petronas University of Technology, Malaysia)
Meta-Heuristics Optimization Algorithms in Engineering, Business, Economics, and Finance explores the emerging study of meta-heuristics optimization algorithms and methods and their role in innovated real world practical applications. This book is a collection of research on the areas of meta-heuristics optimization algorithms in engineering, business, economics, and finance, and aims to be a comprehensive reference for decision makers, managers, engineers, researchers, scientists, financiers, and economists as well as industrialists.

Simultaneous Localization and Mapping for Mobile Robots: Introduction and Methods
Juan-Antonio Fernández-Madrigal (Universidad de Málaga, Spain) and José Luis Blanco Claraco (Universidad de Málaga, Spain)
Simultaneous Localization and Mapping for Mobile Robots: Introduction and Methods investigates the complexities of the theory of probabilistic localization and mapping of mobile robots as well as providing the most current and concrete developments. This reference source aims to be useful for practitioners, graduate and postgraduate students, and active researchers alike.
Software Testing in the Cloud: Perspectives on an Emerging Discipline
Scott Tilley (Florida Institute of Technology, USA) and Tauhida Parveen (Independent Consultant, USA)

Software Testing in the Cloud: Perspectives on an Emerging Discipline is a comprehensive collection of research by leading experts in the field providing an overview of cloud computing and current issues in software testing and system migration. Deserving the attention of researchers, practitioners, and managers, this book aims to raise awareness about this new field of study.

Handbook of Research on Solar Energy Systems and Technologies
Sohail Anwar (Pennsylvania State University, USA), Harry Efstrathiadis (University at Albany- SUNY, USA), and Salahuddin Gazi (SUNY Institute of Technology, USA)

Filled with cutting-edge solar energy research and reference materials, the Handbook of Research on Solar Energy Systems and Technologies serves as a one-stop resource for the latest information regarding different topical areas within solar energy. This handbook will emphasize the application of nanotechnology innovations to solar energy technologies, explore current and future developments in third generation solar cells, and provide a detailed economic analysis of solar energy applications.

Design, Performance, and Analysis of Innovative Information Retrieval
Joan Lu (University of Huddersfield, United Kingdom)

Design, Performance, and Analysis of Innovative Information Retrieval examines a number of emerging technologies that significantly contribute to modern Information Retrieval (IR), as well as fundamental IR theories and concepts that have been adopted into new tools or systems. This reference is essential to researchers, educators, professionals, and students interested in the future of IR.

Dynamic Methods and Process Advancements in Mechanical, Manufacturing, and Materials Engineering
J. Paulo Davim (University of Aveiro, Portugal)

Dynamic Methods and Process Advancements in Mechanical, Manufacturing, and Materials Engineering examines the principles of physics and materials science for analysis, design, manufacturing and maintenance of mechanical equipments and systems. Targeting researchers, practitioners, and academicians, this volume promotes innovative findings in mechanical, manufacturing and materials engineering.

Industrial Dynamics, Innovation Policy, and Economic Growth through Technological Advancements
I. Hakan Yetkiner (Izmir University of Economics, Turkey), M. Teoman Pamukcu (Middle East Technical University, Turkey), and Erkan Erdil (Middle East Technical University, Turkey)

Industrial Dynamics, Innovation Policy, and Economic Growth through Technological Advancements examines the nature of the process of technological change in different sectors of an array of countries, analyzing the impact of innovation as well as research and development activities on different outcomes in different fields and assessing the design and impact of policies aimed at enhancing innovativeness of firms. The analyses and findings of the studies in this book contribute to the advancement of knowledge in the field of industrial dynamics, innovation policies, and economic growth.

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Advanced Design Approaches to Emerging Software Systems: Principles, Methodologies and Tools

Xiaodong Liu (Edinburgh Napier University, UK) and Yang Li (British Telecom, UK)

Advanced Design Approaches to Emerging Software Systems: Principles, Methodologies and Tools provides relevant theoretical frameworks and the latest empirical research findings in the area. This book will help to clarify the present chaotic and confusing literature of the current state of the art and knowledge in the areas of the design and engineering of the many emerging software systems. This book also facilitates the exchange and evolution of software engineering advances among multiple disciplines, research, industry, and user communities.

Dependability and Computer Engineering: Concepts for Software-Intensive Systems

Luigia Pete (Abo Akademi University, Finland), Kaisa Sere (Abo Akademi University, Finland), and Elena Troubitsyna (Abo Akademi University, Finland)

Dependability and Computer Engineering: Concepts for Software-Intensive Systems offers a state-of-the-art overview of the dependability research, from engineering various software-intensive systems to validating existing IT-frameworks and solving generic and particular problems related to the dependable use of IT in our society. It is important to understand how dependability is manifested in software-intensive systems, how it is developed, and how it can be enhanced at various levels in systems and organizations. This book uncovers the existing research on the topic as well as the key challenges associated with the engineering of dependable IT systems in the future.

Technology Engineering and Management in Aviation: Advancements and Discoveries

Evon Abu-Taieh (Arab Academy for Banking and Financial Sciences, UAE), Asim El Sheikh (Arab Academy for Banking and Financial Sciences, UAE), and Mostafa Jafari (Research Institute of Forests and Rangelands, Iran)

Technology Engineering and Management in Aviation: Advancements and Discoveries details the essential new developments in technology and management in the aviation industry. Specific and important advances in navigation, air traffic control, and environmental impact all make their way into this volume, which also focuses on management policies keeping up with new technology. This volume is a vital reference for practitioners, management, students, and all those interested in the field of aviation.

Machine Learning: Concepts, Methodologies, Tools and Applications (3 Vols.)

Information Resources Management Association (USA)

Machine Learning: Concepts, Methodologies, Tools, and Applications offers a wide-ranging selection of key research in a complex field of study. This multi-volume set will cover both broad concepts and specific applications. Chapters will discuss topics ranging from using machine learning to improve the effectiveness of agents and multi-agent systems to developing machine learning software for high frequency trading in financial markets.

Theoretical and Analytical Service-Focused Systems Design and Development

Dickson K.W. Chiu (Dickson Computer Systems, Hong Kong)

Theoretical and Analytical Service-Focused Systems Design and Development provides solutions to these challenges. It advances the practice and understanding of contemporary theories and empirical analysis for systems engineering in a way that achieves service excellence.
Computational and Data Grids: Principles, Applications and Design
Nikolaos Preve (National Technical University of Athens, Greece)

Computational and Data Grids: Principles, Applications and Design offers critical perspectives on theoretical frameworks, methodologies, implementations, and cutting edge research in grid computing, bridging the gap between academia and the latest achievements of the computer industry. Useful for professionals and students involved or interested in the study, use, design, and development of grid computing, this book highlights both the basics of the field and in-depth analyses of grid networks.

Developments in Natural Intelligence Research and Knowledge Engineering: Advancing Applications
Yingxu Wang (University of Calgary, Canada)

Developments in Natural Intelligence Research and Knowledge Engineering: Advancing Applications covers the intricate worlds of thought, comprehension, intelligence, and knowledge through the scientific field of Cognitive Science. This groundbreaking reference contains research from global experts, covering topics that have been pivotal at major conferences covering Cognitive Science topics.

Principal Concepts in Applied Evolutionary Computation: Emerging Trends
Wei-Chiang Samuelson Hong (Oriental Institute of Technology, Taiwan)

Principal Concepts in Applied Evolutionary Computation: Emerging Trends provides an introduction to the important interdisciplinary discipline of evolutionary computation, an artificial intelligence field that combines the principles of computational intelligence with the mechanisms of the theory of evolution. Academics and practicing field professionals will find this reference useful as they break into the emerging and complex world of evolutionary computation, learning to harness and utilize this exciting new interdisciplinary field.

Systems Approaches to Knowledge Management, Transfer, and Resource Development
W.B. Lee (Knowledge Management Research Centre - The Hong Kong Polytechnic University, Hong Kong)

Systems Approaches to Knowledge Management, Transfer, and Resource Development provides a new view of knowledge management through the lens of systems approach, which looks at each part of the knowledge management system as a section of the full overview. This cutting-edge resource will be essential for academicians, scientists, practitioners, and industry professionals as all of these individuals work toward a new understanding of knowledge and information management practices in the 21st century.

Medical Applications of Intelligent Data Analysis: Research Advancements
Rafael Magdalena-Benedito (Intelligent Data Analysis Laboratory, University of Valencia, Spain), et al.

Medical Applications of Intelligent Data Analysis: Research Advancements explores the potential of utilizing this medical data through the implementation of developed models in practical applications. This premier reference source features chapters contributed by specialists in a variety of intelligent data analysis (IDA) fields related to medicine, health, and bioinformatics. All of these contributions are devoted to describing the practical medical applications of IDA and how the theory described in many other books can be implemented to improve medical care.

Intelligent Data Analysis for Real-Life Applications: Theory and Practice
Rafael Magdalena-Benedito (Intelligent Data Analysis Laboratory, University of Valencia, Spain), et al.

Intelligent Data Analysis for Real-Life Applications: Theory and Practice investigates the application of Intelligent Data Analysis (IDA) to these data sets through the design and development of algorithms and techniques to extract knowledge from databases. This pivotal reference explores practical applications of IDA, and it is essential for academic and research libraries as well as students, researchers, and educators in data analysis, application development, and database management.
Multidisciplinary Computational Intelligence Techniques: Applications in Business, Engineering, and Medicine
Shawkat Ali (Central Queensland University, Australia), Noureddine Abbadeni (King Saud University, Saudi Arabia), and Mohamed Batouche (University of Constantine, Algeria)

Multidisciplinary Computational Intelligence Techniques: Applications in Business, Engineering, and Medicine explores the complex world of computational intelligence, which utilizes computational methodologies such as fuzzy logic systems, neural networks, and evolutionary computation for the purpose of managing and using data effectively and addressing complicated real-world problems. This publication brings together various segments of computational intelligence and its applications in the worlds of business, engineering, and medicine.

Machine Learning Algorithms for Problem Solving in Computational Applications: Intelligent Techniques
Siddhivinayak Kulkarni (University of Ballarat, Australia)

Machine Learning Algorithms for Problem Solving in Computational Applications: Intelligent Techniques addresses the complex realm of machine learning and its applications for solving various real-world problems in a variety of disciplines, such as manufacturing, business, information retrieval, and security. This premier reference source is essential for professors, researchers, and students in artificial intelligence as well as computer science and engineering.

Nanoscience and Advancing Computational Methods in Chemistry: Research Progress
Eduardo A. Castro (Research Institute of Theoretical and Applied Physical-Chemistry (INIFTA), Argentina) and A.K. Haghi (University of Guilan, Iran)

Nanoscience and Advancing Computational Methods in Chemistry: Research Progress provides innovative chapters covering the growth of educational, scientific, and industrial research activities among chemical engineers and provides a medium for mutual communication between international academia and the industry. This book publishes significant research reporting new methodologies and important applications in the fields of chemical informatics and discusses latest coverage of chemical databases and the development of new experimental methods.

Handbook of Research on Mobile Software Engineering: Design, Implementation, and Emergent Applications (2 Vols.)
Paulo Alencar (University of Waterloo, Canada) and Donald Cowan (University of Waterloo, Canada)

The Handbook of Research on Mobile Software Engineering: Design, Implementation, and Emergent Applications highlights state-of-the-art research concerning the key issues surrounding current and future challenges associated with the software engineering of mobile systems and related emergent applications. This handbook addresses gaps in the literature within the area of software engineering and the mobile computing world.

Railway Safety, Reliability, and Security: Technologies and Systems Engineering
Francesco Fiammini (IEEE Computer Society Italy)

Railway Safety, Reliability, and Security: Technologies and Systems Engineering provides engineering students and professionals with a collection of state-of-the-art methodological and technological notions to support the development and certification of ‘real-time safety-critical’ railway control systems, as well as the protection of rail transportation infrastructures.
Theoretical and Practical Frameworks for Agent-Based Systems
Yu Zhang (Trinity University, USA)
Theoretical and Practical Frameworks for Agent-Based Systems tackles these real problems and many more, bringing the theoretical research of intelligent agents to researchers and practitioners in academia, government, and innumerable industries. Professionals and experts in every field ranging from education to healthcare and beyond will find this reference to be essential in the understanding of agents, and researchers currently working in the field of intelligent agents will benefit from this exciting examination of practical applications.

Intelligent and Knowledge-Based Computing for Business and Organizational Advancements
Hideyasu Sasaki (Chinese University of Hong Kong, Hong Kong), et al.
Intelligent and Knowledge-Based Computing for Business and Organizational Advancements examines the emerging computing paradigm of Collective Intelligence (CI). The global contributions contained in this publication will prove to be essential to both researchers and practitioners in the computer and information science communities as these populations move toward a new period of fully technology-integrated business.

Creating Synthetic Emotions through Technological and Robotic Advancements
Jordi Vallverdú (Universitat Autònoma de Barcelona, Spain)
Creating Synthetic Emotions through Technological and Robotic Advancements compiles progressive research in the emerging and groundbreaking fields of artificial emotions, affective computing, and social robotics that allow humans to begin the once impossible task of interacting with robots, systems, devices, and agents. This landmark volume brings together expert international researchers to expand upon these topics as synthetic emotions move toward becoming a daily reality.

Cognitively Informed Intelligent Interfaces: Systems Design and Development
Eshaa M. Alkhalfia (Royal University for Women, Bahrain) and Khulood Gaid (Royal University for Women, Bahrain)
Cognitively Informed Intelligent Interfaces: Systems Design and Development analyzes well-grounded findings and recent insights on human perception and cognitive abilities and how these findings can and should impact the development and design of applications through the use of intelligent interfaces. Many software and systems developers currently address these cognitive issues haphazardly, and this reference will bring together clear and concise information to inform and assist all professionals interested in intelligent interfaces from designers to end users.

Hybrid Algorithms for Service, Computing and Manufacturing Systems: Routing and Scheduling Solutions
Jairo R. Montoya-Torres (Universidad de La Sabana, Colombia), Angel A. Juan (Open University of Catalonia, Spain), Luisa Huaccho Huaccho (University of Leeds, UK), Javier Faulin (Public University of Navarre, Spain), and Gloria L. Rodriguez-Verjan (Ecole des mines de Saint-Etienne, France)
Hybrid Algorithms for Service, Computing and Manufacturing Systems: Routing and Scheduling Solutions explores research developments and applications from an interdisciplinary perspective that combines approaches from operations research, computer science, artificial intelligence, and applied computational mathematics. Contributions cover a range of hybrid algorithm theory and practice as it relates to routing, scheduling, and real-life applications.
Technology Integration Advancements in Distributed Systems and Computing

Nik Bessis (University of Derby, UK)

Technology Integration Advancements in Distributed Systems and Computing offers a vital compendium of research and developments within the field of distributed computing, giving case studies, frameworks, architectures, and best practices for academics and practitioners alike. With authors from around the world and the latest research from experts within the field, this resource acts as both a reference guide and research handbook.

Grid and Cloud Computing: Concepts, Methodologies, Tools and Applications (4 Vols.)

Information Resources Management Association (USA)

Grid and Cloud Computing: Concepts, Methodologies, Tools and Applications presents a vital compendium of research detailing the latest case studies, architectures, frameworks, methodologies, and research on Grid and Cloud Computing. With over 100 chapters from authors from around the world, this four volume collection presents the most sophisticated research and developments from the field, relevant to researchers, academics, and practitioners alike. In order to stay abreast of the latest research, this book affords a vital look into grid and cloud middleware, hardware, and software research.

Software Reuse in the Emerging Cloud Computing Era

Hongji Yang (De Montfort University, UK) and Xiaodong Liu (Edinburgh Napier University, UK)

Software Reuse in the Emerging Cloud Computing Era targets a spectrum of readers, including researcher, practitioners, educators and students and even part of the end users in software engineering, computing, networks and distributed systems, and information systems. The handbook will help to clarify the present fast-advancing literature of the current state of art and knowledge in the areas of the development and reuse of reusable assets in emerging software systems and applications, as part of the information science and technology literature. It will no doubt expand the above literature, and promote the exchange and evolution of the above advances in software reuse and cloud computing among multiple disciplines, and a wide spectrum of research, industry, and user communities.

Speech, Image, and Language Processing for Human Computer Interaction: Multi-Modal Advancements

Uma Shanker Tiwary (Indian Institute of Information Technology Allahabad, India) and Tanveer J. Siddiqui (University of Allahabad, India)

Speech, Image, and Language Processing for Human Computer Interaction: Multi-modal Advancements aims to identify the emerging research areas in Human Computer Interaction and discusses the current state of the arts in these areas. This collection of knowledge includes the basic concepts and technologies in language, as well as future developments in this area. This volume will serve as a reference for researchers and students alike to broaden their knowledge of state-of-the-art HCI.

Relational Thinking Styles and Natural Intelligence: Assessing Inference Patterns for Computational Modeling

Phyllis Chiasson (Davis-Nelson Company, USA) and Jayne Tristan (University of North Carolina at Charlotte, USA)

Relational Thinking Styles and Natural Intelligence: Assessing Inference Patterns for Computational Modeling explores a specific set of intelligence theories, unifying and quantifying to create a verifiable model of various inferencing habits. Relational Thinking Styles suggests that the inferencing patterns described and demonstrated by this model may provide a platform from which to examine and integrate various aspects of natural intelligence and how these are expressed. This research provides valuable information for businesses, social services, and any decision-making process involving intelligence assessment.

Service Robots and Robotics: Design and Application

Marco Ceccarelli (University of Cassino, Italy)

Service Robots and Robotics: Design and Application offers the latest research within the field, combining a mixture of case studies, research, and future directions. Staying abreast within the field not only affords practitioners and academics the foot forward they need, it allows for a comprehensive look into the latest advances in a burgeoning field of technology. From tasks no humans can do to everyday tasks for the disabled and elderly, service robots are an enormously important facet of modern technology, and this volume offers a current look into their state of the art.
Handbook of Research on Industrial Informatics and Manufacturing Intelligence: Innovations and Solutions
Mohammad Ayoub Khan (Centre for Development of Advanced Computing, India) and Abdul Quaiyum Ansari (Jamia Millia Islamia, India)

The Handbook of Research on Industrial Informatics and Manufacturing Intelligence: Innovations and Solutions is the best source for the most current, relevant, cutting edge research in the field of industrial informatics. The book focuses on different methodologies of information technologies to enhance industrial fabrication, intelligence, and manufacturing processes. Industrial informatics uses the infrastructure of information technology for analysis, effectiveness, reliability, higher efficiency, security enhancement in the industrial environment, and this book collects the latest publications relevant to academics and practitioners alike.

Next Generation Search Engines: Advanced Models for Information Retrieval
Christophe Jouis (Universite Paris III, France and LIP6-Universite Pierre et Marie Curie, France), Ismail Biskri (Universite du Quebec A Trois Rivieres, Canada), Jean-Gabriel Ganascia (LIP6 and CNRS-Universite Pierre et Marie Curie, France), and Magali Roux (LIP6 and CNRS-Universite Pierre et Marie Curie, France)

Next Generation Search Engines: Advanced Models for Information Retrieval is intended for scientists and decision-makers who wish to gain working knowledge about search in order to evaluate available solutions and to dialogue with software and data providers. The book aims to provide readers with a better idea of the new trends in applied research.

Technological Innovations in Adaptive and Dependent Systems: Advancing Models and Concepts
Vincenzo De Florio (University of Antwerp, Belgium)

Technological Innovations in Adaptive and Dependent Systems: Advancing Models and Concepts provides high quality, effective approaches to design, develop, maintain, evaluate, and benchmark adaptive and dependable systems that are built to sustain quality of service and experience despite the occurrence of potentially significant and sudden changes or failures in their infrastructure and surrounding environments. Providing academicians, practitioners, and researchers with insight, this book contains useful software and hardware aspects, conceptual models, applied and theoretical approaches, paradigms, and other technological innovations.

Modeling, Analysis, and Applications in Metaheuristic Computing: Advancements and Trends
Peng-Yeng Yin (National Chi Nan University, Taiwan)

Modeling, Analysis, and Applications in Metaheuristic Computing: Advancements and Trends is a collection of the latest developments, models, and applications within the transdisciplinary fields related to metaheuristic computing. Providing researchers, practitioners, and academicians with insight into a wide range of topics such as genetic algorithms, differential evolution, and ant colony optimization, this book compiles the latest findings, analysis, improvements, and applications of technologies within metaheuristic computing.

Breakthroughs in Software Science and Computational Intelligence
Yingxu Wang (University of Calgary, Canada)

Breakthroughs in Software Science and Computational Intelligence charts the new ground broken by researchers exploring these two disciplines. A vital resource to students and practitioners working in computer science, theoretical software engineering, cognitive science, cognitive informatics, and intelligence science, this book establishes itself in this new field, emphasizing the abundance of future applications and advancement.

Software and Intelligent Sciences: New Transdisciplinary Findings
Yingxu Wang (University of Calgary, Canada)

Software and Intelligent Sciences: New Transdisciplinary Findings sits at a crossroads and informs advanced researchers, students and practitioners on the developments in computer science, theoretical software engineering, cognitive science, cognitive informatics, and intelligence science. The crystallization of accumulated knowledge by the fertilization of these areas, have led to the emergence of a transdisciplinary field known as software and intelligence sciences, to which this book is an important contribution and a resource for both fields alike.
Logistics Management and Optimization through Hybrid Artificial Intelligence Systems
Carlos Alberto Ochoa Ortiz Zezzati (Juarez City University, Mexico), Camelia Chira (Babes-Bolyai University Cluj-Napoca, Romania), Arturo Hernandez (CIMAT Research Center, Mexico), and Miguel Basurto (UAEM, Mexico)

Logistics Management and Optimization through Hybrid Artificial Intelligence Systems offers the latest research within the field of HAIS, surveying the broad topics and collecting case studies, future directions, and cutting edge analyses. Using biologically inspired algorithms such as ant colony optimization and particle swarm optimization, this text includes solutions and heuristics for practitioners and academics alike, offering a vital resource for staying abreast in this ever-burgeoning field.

Power System Planning Technologies and Applications: Concepts, Solutions and Management
Fawwaz Elkarmi (Al-Ahliyya Amman University, Jordan) and Nazih AbuShikha

Power System Planning Technologies and Applications: Concepts, Solutions and Management focuses on the technical planning of power systems, taking into account technological evolutions in equipment as well as the economic, financial, and societal factors that drive supply and demand and have implications for technical planning at the micro level. With this book, researchers, practicing engineers, regulators, policy makers, and investors will have a better understanding of the intricacies of power system planning and, therefore, improve their decisions about the future.

Computational Methods for Optimizing Manufacturing Technology: Models and Techniques
J. Paulo Davim (University of Aveiro, Portugal)

Computational Methods for Optimizing Manufacturing Technology: Models and Techniques contains the latest research developments in manufacturing technology and its optimization, and demonstrates the fundamentals of new computational approaches and the range of their potential application. Including research on topics such as cellular manufacturing systems, evolutionary algorithms, mobile robots, and particle swarm optimization, this book serves as a useful reference for academics, manufacturing and computational science researchers, mechanical, industrial and manufacturing engineers, and professionals in related industries.

Prototyping of Robotic Systems: Applications of Design and Implementation
Tarek Sobh (University of Bridgeport, USA) and Xingguo Xiong (University of Bridgeport, USA)

Prototyping of Robotic Systems: Applications of Design and Implementation provides a framework for conceptual, theoretical, and applied research in robotic prototyping and its applications. Covering the prototyping of various robotic systems including the complicated industrial robots, the tiny and delicate nanorobots, medical robots for disease diagnosis and treatment, as well as the simple robots for educational purposes, this book is a useful tool for those in the field of robotics prototyping and as a general reference tool for those in related fields.

3-D Surface Geometry and Reconstruction: Developing Concepts and Applications
Umesh Chandra Pati (National Institute of Technology, Rourkela, India)

3-D Surface Geometry and Reconstruction: Developing Concepts and Applications provides developers and scholars with an extensive collection of research articles in the expanding field of 3-D reconstruction. This reference book investigates the concepts, methodologies, applications and recent developments in the field of 3-D reconstruction, making it a useful resource for students, researchers, academics, professionals and industry practitioners.
Insights into Advancements in Intelligent Information Technologies: Discoveries
Vijayan Sugumaran (Oakland University, USA)

Insights into Advancements in Intelligent Information Technologies: Discoveries offers the latest in the field of data management. The book provides a comprehensive overview of the various tools and techniques used in data management, including databases, data warehousing, and data mining. It also discusses the importance of data management in today's business environment and how it can help organizations make informed decisions. The book is a valuable resource for both practitioners and researchers in the field of information technology.

Evolving Developments in Grid and Cloud Computing: Advancing Research
Emmanuel Udoh (Indiana University-Purdue University, USA)

Evolving Developments in Grid and Cloud Computing: Advancing Research contains investigations of grid and cloud evolution, workflow management, and the impact new computing systems have on education and industry. Targeted at both researchers and IT professionals, this book provides current trends and emerging issues in cloud and grid architectures, standards and performance analysis.

Advanced Automated Software Testing: Frameworks for Refined Practice
Izzat Alsmadi (Yarmouk University, Jordan)

Advanced Automated Software Testing: Frameworks for Refined Practice discusses the current state of test automation practices, as it includes chapters related to software test automation and its validity and applicability in different domains. This book demonstrates how test automation can be used in different domains and in the different tasks and stages of software testing, making it a useful reference for researchers, students, and software engineers.

Wireless Radio-Frequency Standards and System Design: Advanced Techniques
Gianluca Cornetta (Universidad San Pablo-CEU, Spain), David J. Santos (Universidad San Pablo-CEU, Spain), and Jose Manuel Vazquez (Universidad San Pablo-CEU, Spain)

Wireless Radio-Frequency Standards and System Design: Advanced Techniques provides perspectives on radio-frequency circuit and systems design, covering recent topics and developments in the RF area. Exploring topics such as LNA linearization, behavioral modeling and co-simulation of analog and mixed-signal complex blocks for RF applications, integrated passive devices for RF-ICs and baseband design techniques and wireless standards, this is a comprehensive reference for students as well as practicing professionals.

Data Intensive Distributed Computing: Challenges and Solutions for Large-scale Information Management
Tevfik Kosar (University of Buffalo (SUNY), USA)

Data Intensive Distributed Computing: Challenges and Solutions for Large-scale Information Management focuses on the challenges of distributed systems imposed by data intensive applications and on the different state-of-the-art solutions proposed to overcome such challenges. Providing hints on how to manage low-level data handling issues when performing data intensive distributed computing, this publication is ideal for scientists, researchers, engineers, and application developers, alike. With the knowledge of the correct data management techniques for their applications, readers will be able to focus on their primary goal, assured that their data management needs are handled reliably and efficiently.

Luis M. Vaquero (Telefónica R&D Labs, Spain), Juan Cáceres (Telefónica R&D Labs, Spain), and Juan J. Hierro (Telefónica R&D Labs, Spain)

Open Source Cloud Computing Systems: Practices and Paradigms bridges the gap between solutions and users’ needs. The book presents the most relevant open source cloud technologies available today using a practical perspective. It offers a practical compendium of cloud technologies while also providing information on where to access these technologies, how to install them, and when it is appropriate to use one technology over another. For those deciding to start the endeavor of creating their own cloud, this book serves as a starting point for research on practical purposes and systems design.
Innovative Applications of Ambient Intelligence: Advances in Smart Systems
Kevin Curran (University of Ulster, UK)

Innovative Applications of Ambient Intelligence: Advances in Smart Systems provides perspectives on the convergence of ubiquitous computing, intelligent systems research, and context awareness with the aim of encouraging the further development of ambient intelligence frameworks and research. Focusing on interaction and communication in smart environments, as well as the successful development and design of ambient interfaces and platforms, this book aims to further the continuously growing dialogue on the promise of ambient computing.

Free and Open Source Enterprise Resource Planning: Systems and Strategies
Rogerio Atem de Carvalho (Instituto Federal Fluminense, Brazil) and Björn Johansson (Lund University, Sweden)

Free and Open Source Enterprise Resource Planning: Systems and Strategies unites research on FOS-ERP, comparing differences with proprietary Enterprise Resource Planning products, and demonstrating key research factors. It includes cases demonstrating how small enterprises have benefited from FOS-ERP in Spain and in Belgium, along with difficulties encountered and solutions developed. This essential reference addresses key issues such as security and legal risks, as well as challenges, opportunities, and barriers to adoption.

Computer Engineering: Concepts, Methodologies, Tools and Applications (4 Vols.)

Information Resources Management Association (USA)

Computer Engineering: Concepts, Methodologies, Tools, and Applications is a broad, multi-volume collection of the best recent works published under the umbrella of computer engineering. It includes perspectives on the fundamental aspects, tools and technologies, methods and design, applications, managerial impact, social/behavioral perspectives, critical issues, and emerging trends in the field. The volume is vital and highly accessible across the hybrid domain of electrical engineers and computer scientists, practitioners and academics alike.

Exploring Advances in Interdisciplinary Data Mining and Analytics: New Trends
David Taniar (Monash University, Australia) and Lukman Hakim Iwan (ICT Division of Bekasi Regency, Indonesia)

Exploring Advances in Interdisciplinary Data Mining and Analytics: New Trends is an updated look at the state of technology in the field of data mining and analytics. As processor speeds, database size, network capabilities, artificial intelligence, and most fields of hardware and software continue to improve at a staggering rate of increased capability and pace, it is vital for practitioners to stay abreast of the current issues and research in the field. This volume is perfect for IT specialists, data analysts, practitioners and academics alike, offering the latest technological, analytical, ethical, and commercial perspectives on topics in data mining.

Emerging Technologies for the Evolution and Maintenance of Software Models
Jörg Rech (SAP Research Center Karlsruhe, Germany) and Christian Bunse (University of Applied Sciences Stralsund, Germany)

Emerging Technologies for the Evolution and Maintenance of Software Models contains original academic work about current research and research projects related to all aspects affecting the maintenance, evolution, and reengineering (MER), as well as long-term management, of software models. The mission of this book is to present a comprehensive and central overview of new and emerging trends in software model research and to provide concrete results from ongoing developments in the field.

Cross-Disciplinary Models and Applications of Database Management: Advancing Approaches
Keng Siau (University of Nebraska - Lincoln, USA)

Cross-Disciplinary Models and Applications of Database Management: Advancing Approaches is an updated look at the latest tools and technology within the burgeoning field of database management. Perfect for the network administrator, technician, information technology specialist or consultant, or for academics and students, this volume presents the latest field to have by way of cases and new research. As database languages, models, and systems change, it’s vital for practitioners within the field to stay abreast of the latest research and methods being used around the world, and this book offers the most current advances available.
Cross-Disciplinary Applications of Artificial Intelligence and Pattern Recognition: Advancing Technologies
Vijay Kumar Mago (McGill Program, SFU, Canada) and Nitin Bhatia (DAV College, India)

Cross-Disciplinary Applications of Artificial Intelligence and Pattern Recognition: Advancing Technologies provides a common platform for researchers to present theoretical and applied research findings for enhancing and developing intelligent systems. Through its discussions of advances in and applications of pattern recognition technologies and artificial intelligence, this reference highlights core concepts in biometric imagery, feature recognition, and other related fields, along with their applicability.

Cross-Disciplinary Advances in Applied Natural Language Processing: Issues and Approaches
Chutima Boonthum-Denecke (Hampton University, USA), Philip M. McCarthy (University of Memphis, USA), and Travis A. Lamkin (University of Memphis, USA)

Cross-Disciplinary Advances in Applied Natural Language Processing: Issues and Approaches defines the role of ANLP within NLP and, alongside other disciplines such as linguistics, computer science, and cognitive science. The description also includes the categorization of current ANLP research, and examples of current research in ANLP. This book is a useful reference for teachers, students, and materials developers in fields spanning linguistics, computer science, and cognitive science.

XML Data Mining: Models, Methods, and Applications
Andrea Tagarelli (University of Calabria, Italy)

XML Data Mining: Models, Methods, and Applications aims to collect knowledge from experts of database, information retrieval, machine learning, and knowledge management communities in developing models, methods and systems for XML data mining. This book addresses key issues and challenges in XML data mining, offering insights into the various existing solutions and best practices for modeling, processing, analyzing XML data, and for evaluating performance of XML data mining algorithms and systems.

Supply Chain Innovation for Competing in Highly Dynamic Markets: Challenges and Solutions
Pietro Evangelista (IRAT-CNR and University of Naples Federico II, Italy), et al.

Supply Chain Innovation for Competing in Highly Dynamic Markets: Challenges and Solutions investigates the role of innovation in the management of supply chains of today. This book focuses on supply chain integration from both strategic and operational perspectives and the impact of information technology-related innovation in supply chain and logistics service industries. It also analyzes how environmental innovation affects logistical decisions throughout the supply chain and the strategies employed in managing logistics-related environmental impacts. Finally, the book explores theoretical and practical implications of innovation in the management of supply systems.

Software Process Improvement and Management: Approaches and Tools for Practical Development
Shukor Sanim Mohd Fauzi (University Teknologi Mara, Malaysia), et al.

Software Process Improvement and Management: Approaches and Tools for Practical Development offers the latest research and case studies on software engineering and development. The production of new process standards assist organizations and software engineers in adding a measure of predictability to the software process. Companies can gain a decisive competitive advantage by applying these new and theoretical methodologies in real-world scenarios. Researchers, scholars, practitioners, students, and anyone interested in the field of software development and design should access this book as a major compendium of the latest research in the field.
Bioinformatics has been at the forefront of high-throughput data mining, genomics, and computational biology. As the volume of biological data continues to grow, there is a need for bioinformatics tools to improve the information retrieval and analysis. This book provides a comprehensive view of the field of bioinformatics, including modern data mining and machine learning techniques used for biological information retrieval. It is a comprehensive and accessible resource for researchers and practitioners in the field of bioinformatics.
Innovation in Power, Control, and Optimization: Emerging Energy Technologies

Pandian Vasant (University Technology Petronas, Malaysia), Nader Barsoum (Curtin University, Malaysia), and Jeffrey Webb (Swinburne University of Technology, Malaysia)

Innovation in Power, Control, and Optimization: Emerging Energy Technologies unites research on the development of techniques and methodologies to improve the performance of power systems, energy planning and environments, controllers and robotics, operation research, and modern artificial computational intelligent techniques. Containing research on power engineering, control systems, and methods of optimization, this book is written for professionals who want to improve their understanding of strategic developments in the area of power, control, and optimization.

Graph Data Management: Techniques and Applications

Sherif Sakr (University of New South Wales, Australia), and Eric Pardeede (LaTrobe University, Australia)

Graph Data Management: Techniques and Applications is a central reference source for different data management techniques for graph data structures and their application. This book discusses graphs for modeling complex structured and schemaless data from the Semantic Web, social networks, protein networks, chemical compounds, and multimedia databases and offers essential research for academics working in the interdisciplinary domains of databases, data mining, and multimedia technology.

Advanced Methods and Applications in Cheminformatics: Research Progress and New Applications

Eduardo A. Castro (Research Institute of Theoretical and Applied Physical-Chemistry (INIFTA), Argentina), and A.K. Haghi (University of Guilan, Iran)

Advanced Methods and Applications in Cheminformatics: Research Methods and New Applications provides innovative chapters on the growth of educational, scientific, and industrial research activities among chemists and chemical engineers and provides a medium for mutual communication between international academia and the industry. This book contains significant research reporting new methodologies and important applications in the fields of chemical informatics as well as the latest coverage of chemical databases and the development of new computational methods and efficient algorithms for chemical software and chemical engineering.

Advances in Monolithic Microwave Integrated Circuits for Wireless Systems: Modeling and Design Technologies

Arjuna Marzuki (Universiti Sains Malaysia, Malaysia), Ahmad Ismat Abdul Rahim (Telekom R&D Malaysia, Malaysia), and Mourad Loulou (Group EleCom LETI Laboratory, Tunisia)

Advances in Monolithic Microwave Integrated Circuits for Wireless Systems: Modeling and Design Technologies is a central source of knowledge on MMIC development, containing research on theory, design, and practical approaches to integrated circuit devices. This book is of interest to researchers in industry and academia working in the areas of circuit design, integrated circuits, and RF and microwave as well as anyone with an interest in monolithic wireless device development.

Kansei Engineering and Soft Computing: Theory and Practice

Ying Dai (Iwate Pref. University, Japan), Basabi Chakraborty (Iwate Prefectural University, Japan), and Minghui Shi (Xiamen University, China)

Kansei Engineering and Soft Computing: Theory and Practice offers a comprehensive review of kansei engineering, soft computing techniques, and the fusion of these two fields from a variety of viewpoints. It explores traditional technologies, as well as solutions to real-world problems through the concept of kansei and the effective utilization of soft computing techniques. This publication is an essential read for professionals, researchers, and students in the field of kansei information processing and soft computing providing both theoretical and practical viewpoints of research in humanized technology.

Affective Computing and Interaction: Psychological, Cognitive and Neuroscientific Perspectives

Didem Gökçe (Middle Eastern Technical University, Turkey), and Gülsen Yildirim (Middle Eastern Technical University, Turkey)

Affective Computing and Interaction: Psychological, Cognitive and Neuroscientific Perspectives examines the current state and the future prospects of affect in computing within the context of interactions. Uniting several aspects of affective interactions and topics in affective computing, this reference reviews basic foundations of emotions, furthers an understanding of the contribution of affect to our lives and concludes by revealing current trends and promising technologies for reducing the emotional gap between humans and machines, all within the context of interactions.
Interdisciplinary Advances in Adaptive and Intelligent Assistant Systems: Concepts, Techniques, Applications, and Use
Gunther Kreuzberger (Ilmenau Technical University, Germany), et al.

Interdisciplinary Advances in Adaptive and Intelligent Assistant Systems: Concepts, Techniques, Applications, and Use encourages knowledge on effective and efficient approaches to accessing information spaces. It fosters an emerging key competence: accessing and processing large, highly complex corpora of information by applying collaborative, intelligent technical systems. It is the mission of this book to trigger interdisciplinary research and cooperation at the intersection between information sciences, information technologies and communication sciences. This publication also raises awareness of the field’s importance in business and management communities, thus contributing to the dissemination of scientific ideas and insights.

Knowledge-Based Intelligent System Advancements: Systemic and Cybernetic Approaches
Jerzy Jozefczyk (Wrocław University of Technology, Poland) and Donat Orski (Wrocław University of Technology, Poland)

Knowledge-Based Intelligent System Advancements: Systemic and Cybernetic Approaches presents selected new AI-based ideas and methods for analysis and decision making in intelligent information systems derived using systemic and cybernetic approaches. This book is useful for researchers, practitioners and students interested in intelligent information retrieval and processing, machine learning and adaptation, knowledge discovery, applications of fuzzy based methods and neural networks.

Multi-Agent Applications with Evolutionary Computation and Biologically Inspired Technologies: Intelligent Techniques for Ubiquity and Optimization
Shu-Heng Chen (National Chengchi University, Taiwan), Yasushi Kambayashi (Nippon Institute of Technology, Japan), and Hiroshi Sato (National Defense Academy, Japan)

Multi-Agent Applications with Evolutionary Computation and Biologically Inspired Technologies: Intelligent Techniques for Ubiquity and Optimization compiles numerous ongoing projects and research efforts in the design of agents in light of recent development in neurocognitive science and quantum physics. This innovative collection provides readers with interdisciplinary applications of multi-agents systems, ranging from economics to engineering.

Machine Audition: Principles, Algorithms and Systems
Wenwu Wang (University of Surrey, UK)

Machine Audition: Principles, Algorithms and Systems contains advances in algorithmic developments, theoretical frameworks, and experimental research findings. This book is useful for professionals who want an improved understanding about how to design algorithms for performing automatic analysis of audio signals, construct a computing system for understanding sound, and learn how to build advanced human-computer interactive systems.

Cloud, Grid and High Performance Computing: Emerging Applications
Emmanuel Udoh (Indiana University-Purdue University, USA)

Cloud, Grid and High Performance Computing: Emerging Applications offers new and established perspectives on architectures, services and the resulting impact of emerging computing technologies. Intended for professionals and researchers, this publication furthers investigation of practical and theoretical issues in the related fields of grid, cloud, and high performance computing.

Knowledge Discovery Practices and Emerging Applications of Data Mining: Trends and New Domains
A.V. Senthil Kumar (CMS College of Science and Commerce, India)

Knowledge Discovery Practices and Emerging Applications of Data Mining: Trends and New Domains introduces the reader to recent research activities in the field of data mining. This book covers association mining, classification, mobile marketing, opinion mining, microarray data mining, internet mining and applications of data mining on biological data, telecommunication and distributed databases, among others, while promoting understanding and implementation of data mining techniques in emerging domains.
Intelligent, Adaptive and Reasoning Technologies: New Developments and Applications
Vijayan Sugumaran (Oakland University, USA)

Intelligent, Adaptive and Reasoning Technologies: New Developments and Applications is a comprehensive collection of work from researchers in related fields such as information systems, distributed AI, intelligent agents, and collaborative work that explores and discusses various aspects of design and development of intelligent technologies. This book provides a forum for academics and practitioners to explore research issues related to not only design, implementation and deployment of intelligent systems and technologies, but also economic issues and organizational impact.

Conversational Agents and Natural Language Interaction: Techniques and Effective Practices
Diana Perez-Marín (Universidad Rey Juan Carlos, Spain) and Ismael Pascual-Nieto (Universidad Autonoma de Madrid, Spain)

Conversational Agents and Natural Language Interaction: Techniques and Effective Practices is a reference guide for researchers entering the promising field of conversational agents. It provides an introduction to fundamental concepts in the field, collects experiences of researchers working on conversational agents, and reviews techniques for the design and application of conversational agents. The book discusses the successes of and challenges faced by researchers, designers, and programmers who want to use conversational agents for e-commerce, help desks, website navigation, personalized service, and training or education applications.

Ubiquitous Developments in Ambient Computing and Intelligence: Human-Centered Applications
Kevin Curran (University of Ulster, Ireland)

Ubiquitous Developments in Ambient Computing and Intelligence: Human-Centered Applications provides a comprehensive collection of knowledge in cutting-edge research in fields as diverse as distributed computing, human computer interaction, ubiquitous computing, embedded systems, and other interdisciplinary areas which all contribute to AmI. Predicting the technologies that will shape our ever changing world is difficult however, in this book it is discussed that Ambient Intelligent technology will develop considerably in the future.

Transdisciplinary Advancements in Cognitive Mechanisms and Human Information Processing
Yingxu Wang (University of Calgary, Canada)

Transdisciplinary Advancements in Cognitive Mechanisms and Human Information Processing examines innovative research in the emerging, multi-disciplinary field of cognitive informatics. Researchers, practitioners and students can benefit from discussions of the connections between natural science and informatics that are investigated in this fundamental collection of cognitive informatics research. This book provides information on the interrelation of the multidisciplinary research areas of Cognitive Informatics and the transdisciplinary study of Natural Intelligence.

Handbook of Research on Ambient Intelligence and Smart Environments: Trends and Perspectives
Nak-Young Chong (Japan Advanced Institute of Science and Technology, Japan) and Fulvio Mastrogiovanni (University of Genova, Italy)

The Handbook of Research on Ambient Intelligence and Smart Environments: Trends and Perspectives covers the cutting-edge aspects of AmI applications, specifically those involving the effective design, realization, and implementation of a comprehensive AmI application. This pertinent publication targets researchers and practitioners in Ambient Intelligence, as well as those in ubiquitous and pervasive computing, artificial intelligence, sensor networks, knowledge representation, automated reasoning and learning, system and software engineering, and man-machine interfaces.
Theoretical and Practical Advances in Information Systems Development: Emerging Trends and Approaches

Keng Siau (University of Nebraska, USA)

Theoretical and Practical Advances in Information Systems Development: Emerging Trends and Approaches contains fundamental concepts, emerging theories, and practical applications in database management, systems analysis and design, and software engineering. Contributions present critical findings in information resources management that inform and advance the field.

Integrations of Data Warehousing, Data Mining and Database Technologies: Innovative Approaches

David Taniar (Monash University, Australia) and Li Chen (LaTrobe University, Australia)

Integrations of Data Warehousing, Data Mining and Database Technologies: Innovative Approaches provides a comprehensive compilation of knowledge covering state-of-the-art developments and research, as well as current innovative activities in data warehousing and mining. This book focuses on the integration between the fields of data warehousing and data mining, with emphasis on the applicability to real world problems and provides a broad perspective on the future of these two cohesive topic areas.

Knowledge Engineering for Software Development Life Cycles: Support Technologies and Applications

Muthu Ramachandran (Leeds Metropolitan University, UK)

Knowledge Engineering for Software Development Life Cycles: Support Technologies and Applications bridges the best practices and design principles successfully employed over the last two decades with modern Knowledge Engineering (KE), which has provided some of the most valuable techniques and tools to support encoding knowledge and experiences. Through its identification and exploration of software development practices, captured as software guidelines that can be represented to automated software development, decision making, and knowledge management, this book brings industry and academia together to address the need for the growing applications and supporting knowledge-based approaches to software development.

Space-Based Technologies and Commercialized Development: Economic Implications and Benefits

Stella Tkatchova (TU Delft, The Netherlands)

Space-Based Technologies and Commercialized Development: Economic Implications and Benefits introduces the concept of space-based technology commercialization and offers a first-time analysis of plausible opportunities. This essential reference examines the overall marketability of tourism in outer space, including business case studies on celestial solar power and space debris that demonstrate the potential of cosmic technologies in the context of interplanetary business.

Multi-Disciplinary Advancement in Open Source Software and Processes

Stefan Koch (Bogazici University, Turkey)

Multi-Disciplinary Advancement in Open Source Software and Processes reviews the development, design, and use of free and open source software, providing relevant topics of discussion for programmers, as well as researchers in human-computer studies, online and virtual collaboration, and e-learning. This reference explores successes and failures in the discipline, providing a foundation for future research and new approaches for the development and application of free and open source projects.

Advanced Database Query Systems: Techniques, Applications and Technologies

Li Yan (Northeastern University, China) and Zongmin Ma (Northeastern University, China)

Advanced Database Query Systems: Techniques, Applications and Technologies focuses on technologies and methodologies of database queries, XML, and metadata queries, and applications of database query systems, aiming at providing a single account of technologies and practices in advanced database query systems. This book provides the state of the art information for academics, researchers and industry practitioners who are interested in the study, use, design and development of advanced and emerging database queries with ultimate aim of building competencies for exploiting the opportunities of the data and knowledge society.
Intelligent Systems for Machine Olfaction: Tools and Methodologies
Evor L. Hines (University of Warwick, UK) and Mark S. Leeson (University of Warwick, UK)
Intelligent Systems for Machine Olfaction: Tools and Methodologies introduces new, state-of-the-art applications of intelligent systems to researchers and developers in the area of machine olfaction. Readers will benefit from in-depth analyses of fundamental theories, potential trends, and key literature in the field, making this work both a source of application examples that can be readily implemented and a practical guide for the implementation of solutions in other scenarios.

Wen-Ran Zhang (Georgia Southern University, USA)
YinYang Bipolar Relativity: A Unifying Theory of Nature, Agents and Causality with Applications in Quantum Computing, Cognitive Informatics and Life Sciences presents real-world applications of YinYang bipolar relativity that focus on quantum computing and agent interaction. This unique work makes complex theoretical topics, such as the ubiquitous effects of quantum entanglement, logically comprehensible to a vast audience.

Ali H. Doğru (Middle East Technical University, Turkey) and Veli Bicer (FZI Research Center for Information Technology, Germany)
Modern Software Engineering Concepts and Practices: Advanced Approaches provides emerging theoretical approaches and their practices. This book includes case studies and real-world practices and presents a range of advanced approaches to reflect various perspectives in the discipline.

Cognitive Informatics and Wisdom Development: Interdisciplinary Approaches
Andrew Targowski (Western Michigan University, USA)
Cognitive Informatics and Wisdom Development: Interdisciplinary Approaches argues that wise civilization cannot function without wise people and vice versa, that wise people cannot function without positive conditions for the development of wise civilization. Using the cognitive informatics approach as a basis for the investigation of wisdom, this book offers solutions on how to study and evaluate the state of wisdom in 21st century society and the requirements for wise civilization and its monitoring systems.

Reconfigurable Embedded Control Systems: Applications for Flexibility and Agility
Mohamed Khalgui (Xidian University, China) and Hans-Michael Hanisch (Martin Luther University, Germany)
Reconfigurable Embedded Control Systems: Applications for Flexibility and Agility addresses the development of reconfigurable embedded control systems and describes various problems in this important research area, which include static and dynamic (manual or automatic) reconfigurations, multi-agent architectures, modeling and verification, component-based approaches, architecture description languages, distributed reconfigurable architectures, real-time and low power scheduling, execution models, and the implementation of such systems. The chapters contained within this reference work propose interesting and useful solutions that can be applied in future industry.
Computational Neuroscience for Advancing Artificial Intelligence: Models, Methods and Applications

Eduardo Alonso (City University London, UK) and Esther Mondragon (University College London, UK)

Computational Neuroscience for Advancing Artificial Intelligence: Models, Methods and Applications captures the latest research in this area, providing learning theorists with a mathematically sound framework within which evaluate their models. The significance of this book lies in its theoretical advances, which are grounded in an understanding of computational and biological learning. The approach taken moves the entire field closer to a watershed moment of learning models, through the interaction of computer science, psychology and neurobiology.

Multi-Agent Systems for Education and Interactive Entertainment: Design, Use and Experience

Martin Beer (Sheffield Hallam University, UK), Maria Fasli (University of Essex, UK), and Debbie Richards (Macquarie University, Australia)

Multi-Agent Systems for Education and Interactive Entertainment: Design, Use and Experience presents readers with a rich collection of ideas from researchers who are exploring the complex tradeoffs that must be made in designing agent systems for education and interactive entertainment. This book aims to provide a mixture of relevant theoretical and practical understanding of the use of multi-agent systems in educational and entertainment research, together with practical examples of the use of such systems in real application scenarios.

Visual Analytics and Interactive Technologies: Data, Text and Web Mining Applications

Qingyu Zhang (Arkansas State University, USA), Richard Segall (Arkansas State University, USA), and Mei Cao (University of Wisconsin-Superior, USA)

Visual Analytics and Interactive Technologies: Data, Text and Web Mining Applications is a comprehensive reference on concepts, algorithms, theories, applications, software, and visualization of data mining, text mining, Web mining and computing/supercalculating. This publication provides a coherent set of related works on the state-of-the-art of the theory and applications of mining, making it a useful resource for researchers, practitioners, professionals and intellectuals in technical and non-technical fields.

Software Engineering for Secure Systems: Industrial and Research Perspectives

Haralambos Mouratidis (University of East London, UK)

Software Engineering for Secure Systems: Industrial and Research Perspectives presents the most recent and innovative lines of research and industrial practice related to secure software engineering. The book provides coverage of recent advances in the area of secure software engineering that address the various stages of the development process from requirements to testing to implementation. Contributions offer a comprehensive understanding secure software engineering, inspire and motivate further research and development, and bridge the gap between academic research and industrial practice.

Developments in Intelligent Agent Technologies and Multi-Agent Systems: Concepts and Applications

Goran Trajkovski (Algoco eLearning Consulting, USA)

Developments in Intelligent Agent Technologies and Multi-Agent Systems: Concepts and Applications discusses research on emerging technologies and systems based on agent and multi-agent paradigms across various fields of science, engineering, and technology. This book is a collection of work that covers conceptual frameworks, case studies, and analysis while serving as a medium of communication among researchers from academia, industry and government.

Model-Driven Domain Analysis and Software Development: Architectures and Functions

Janis Osis (Riga Technical University, Latvia) and Erika Asnina (Riga Technical University, Latvia)

Model-Driven Domain Analysis and Software Development: Architectures and Functions displays how to effectively map and respond to the real-world challenges and purposes which software must solve. The implications can be far-reaching and apply to domains such as mechatronic, embedded and high risk systems, where failure could cost human lives. It is also important for complex business systems, wherein failures could lead to huge financial losses. This book forms an essential reference for developers and researchers by providing both cases and theories to ensure a strong and suitable domain analysis to support all other efforts when creating and applying software solutions.
Numerical simulation. With this emerging area, including hydrodynamic equations, genetic algorithms, Bayesian belief networks and rough set analysis, methodologies include fuzzy sets, neural networks, genetic algorithms, Bayesian belief networks and rough set analysis to achieve solutions for complex problems. Soft computing techniques for adaptive multimedia retrieval research, design and applications.

Computer Vision for Multimedia Applications: Methods and Solutions
Jinjun Wang (NEC Laboratories America, Inc., USA), Jian Cheng (Chinese Academy of Sciences, China), and Shuqiang Jiang (Chinese Academy of Sciences, China)

Computer Vision for Multimedia Applications: Methods and Solutions includes the latest developments in computer vision methods applicable to various problems in multimedia computing. This publication presents discussions on new ideas, as well as problems in computer vision and multimedia computing. It will serve as an important reference in multimedia and computer vision for academicians, researchers, and academic libraries.

Machine Learning Techniques for Adaptive Multimedia Retrieval: Technologies and Perspectives
Chia-Hung Wei (Ching Yun University, Taiwan) and Yue Li (Nankai University, China)

Machine Learning Techniques for Adaptive Multimedia Retrieval: Technologies and Perspectives disseminates current information on multimedia retrieval, advances the field of multimedia databases, and educates the multimedia database community. It is a critical text for professionals who are engaged in efforts to understand machine learning techniques for adaptive multimedia retrieval research.

Handbook of Research on Discrete Event Simulation Environments: Technologies and Applications
Evon M. O. Abu-Taieh (Arab Academy for Banking and Financial Services, Jordan) and Asim Abdel Rahman El Sheikh (Arab Academy for Banking and Financial Services, Jordan)

The Handbook of Research on Discrete Event Simulation Environments: Technologies and Applications provides a comprehensive overview of theory and practice in simulation systems. A leading publication in this growing field, this Handbook of Research offers researchers, academicians, and practitioners progressive findings in simulation methodologies, modeling, standards, and applications.

Computational Gas-Solids Flows and Reacting Systems: Theory, Methods and Practice
Sreekanth Pannala (Oak Ridge National Laboratory, USA), Madhava Syamlal (National Energy Technology Laboratory, USA), and Thomas J. O’Brien (National Energy Technology Laboratory, USA)

Computational Gas-Solids Flows and Reacting Systems: Theory, Methods and Practice addresses the need for a comprehensive book on computational gas-solids flow to aid researchers, graduate students, and practicing engineers in this rapidly expanding area. This unique book provides a full exploration of the theory, numerical methods, and practices associated with this emerging area, including hydrodynamic equations, quadrature-based moment methods, and direct numerical simulation.

Soft Computing Applications for Database Technologies: Techniques and Issues
K. Anbumani (Karunya University, India) and R. Nedunchezhiyan (Sri Ramkrishna Engineering College, India)

Soft Computing Applications for Database Technologies: Techniques and Issues treat the new, emerging discipline of soft computing, which exploits the tolerance for imprecision and uncertainty to achieve solutions for complex problems. Soft computing methodologies include fuzzy sets, neural networks, genetic algorithms, Bayesian belief networks and rough sets, which are explored in detail through case studies and in-depth research. The advent of soft computing marks a significant paradigm shift in computing, with a wide range of applications and techniques which are presented and discussed in the chapters of this book.

Agile Technologies in Open Source Development
Barbara Russo (Free University of Bozen-Balzano, Italy), Marco Scotto (Free University of Bozen-Balzano, Italy), Alberto Stilitti (Free University of Bozen-Balzano, Italy), and Giancarlo Succi (Free University of Bozen-Balzano, Italy)

Agile Technologies in Open Source Development explores the overlap between open source and agile technologies, providing valuable strategies for advancement in software. This innovative publication presents a significant resource to assist project managers, engineers, and developers interested in experimenting with new approaches in software expansion.
Complex Data Warehousing and Knowledge Discovery for Advanced Retrieval Development: Innovative Methods and Applications

Tho Manh Nguyen (Institute of Software Technology and Interactive Systems and Vienna University of Technology, Austria)

Complex Data Warehousing and Knowledge Discovery for Advanced Retrieval Development: Innovative Methods and Applications provides a comprehensive analysis of current issues and trends in retrieval expansion. Containing research from leading international experts, this book presents future challenges and opportunities in the field valuable to academicians, researchers, and practitioners.

Behavioral Modeling for Embedded Systems and Technologies: Applications for Design and Implementation

Luis Gomes (Universidade Nova de Lisboa, Portugal) and João M. F. Fernandes (Universidade do Minho, Portugal)

Behavioral Modeling for Embedded Systems and Technologies: Applications for Design and Implementation provides innovative behavior models currently used for developing embedded systems, accentuating graphical and visual notations. This dynamic compilation presents an authoritative reference collection to the most significant models of computation currently in use for embedded systems design.

Nature-Inspired Informatics for Intelligent Applications and Knowledge Discovery: Implications in Business, Science, and Engineering

Raymond Chiong (Swinburne University of Technology, Maylaysia)

Nature-Inspired Informatics for Intelligent Applications and Knowledge Discovery: Implications in Business, Science, and Engineering provides the latest findings in nature-inspired algorithms and their applications for breakthroughs in a wide range of disciplinary fields. This defining reference collection contains chapters written by leading researchers and well-known academicians within the field.

Artificial Intelligence Applications for Improved Software Engineering Development: New Prospects

Farid Meziane (University of Salford, UK) and Sunil Vadera (University of Salford, UK)

Artificial Intelligence Applications for Improved Software Engineering Development: New Prospects provides an overview of useful techniques in artificial intelligence for future software development along with critical assessment for further advancement. A compendium of latest industry findings, this Premier Reference Source offers researchers, academicians, and practitioners developmental ideas within the field.

Evolutionary Computation and Optimization Algorithms in Software Engineering: Applications and Techniques

Monica Chis (Siemens PSE, Romania)

Evolutionary Computation and Optimization Algorithms in Software Engineering: Applications and Techniques lays the foundation for the successful integration of evolutionary computation into software engineering. It surveys techniques ranging from genetic algorithms to swarm optimization theory, to ant colony optimization, demonstrating their uses and capabilities. These techniques are applied to aspects of software engineering such as software testing, quality assessment, reliability assessment, and fault prediction models, among others, to providing researchers, scholars and students with the knowledge needed to expand this burgeoning application.
It is easier to create an informed basis for decisions. Information technologies in industrial settings, and making it easier to create an informed basis for decisions. This compilation provides a broad state-of-the-art review and showing perspectives and services. Established not only as a framework and the latest empirical research findings. For reconfigurable network-on-chip necessary for reconfigurable network-on-chip, the book represents a foundation of existing practices, but enhances understanding on human reasoning. Data Mining in Public and Private Sectors: Organizational and Government Applications

Antti Syväjärvi (University of Lapland, Finland) and Jari Stenvall (Tampere University, Finland)

Data Mining in Public and Private Sectors: Organizational and Government Applications explores the manifestation of data mining and how it can be enhanced at various levels of management. This innovative publication provides relevant theoretical frameworks and the latest empirical research findings.

Novel Developments in Granular Computing: Applications for Advanced Human Reasoning and Soft Computation

JingTao Yao (University of Regina, Canada)

Novel Developments in Granular Computing: Applications for Advanced Human Reasoning and Soft Computation analyzes developments and current trends of granular computing, reviewing the most influential research and predicting future trends. This book not only presents a comprehensive summary of existing practices, but enhances understanding on human reasoning.

Industrial Informatics Design, Use and Innovation: Perspectives and Services

Jonny Holmström (Umeå University, Sweden), Mikael Wiberg (Umeå University, Sweden), and Andreas Lund (Umeå University, Sweden)

Industrial Informatics Design, Use and Innovation: Perspectives and Services establishes not only a sound grounding in industrial informatics but it also provides a broad state-of-the-art review and showing connections and gaps in the current knowledge for researchers working in the field today. This compilation also represents guidance to those who design and use information technologies in industrial settings, and making it easier to create an informed basis for decisions.

Dynamic Reconfigurable Network-on-Chip Design: Innovations for Computational Processing and Communication

Jih-Sheng Shen (National Chung Cheng University, Taiwan), et al.

Dynamic Reconfigurable Network-on-Chip Design: Innovations for Computational Processing and Communication is one of the first compilations written to demonstrate this future for network-on-chip design. Through dynamic and creative research into questions ranging from integrating reconfigurable computing techniques, to task assigning, scheduling and arrival, to designing an operating system to take advantage of the computing and communication flexibilities brought about by run-time reconfiguration and network-on-chip, this book represents a complete source of the techniques and applications for reconfigurable network-on-chip necessary for understanding of future of this field.

Intelligent Industrial Systems: Modeling, Automation and Adaptive Behavior

Gerasimos G. Rigatos (Industrial Systems Institute, Greece)

Intelligent Industrial Systems: Modeling, Automation and Adaptive Behavior analyzes current trends in industrial systems design, such as intelligent, industrial, and mobile robotics, complex electromechanical systems, fault diagnosis and avoidance of critical conditions, optimization, and adaptive behavior. This book discusses examples from major areas of research for engineers and researchers, providing an extensive background on robotics and industrial systems with intelligence, autonomy, and adaptive behavior giving emphasis to industrial systems design.
Nanotechnology and Microelectronics: Global Diffusion, Economics and Policy
Ndubuisi Ekekwe (Johns Hopkins University, USA)

Nanotechnology and Microelectronics: Global Diffusion, Economics and Policy provides comprehensive research and case studies on the issues surrounding technology transfer and diffusion, trends and developments, and economics and policies as they relate to these technologies. This book serves as a resource for academics, students, policy-makers and professionals interested in advancing their knowledge of nanotechnology and microelectronics.

Thinking Machines and the Philosophy of Computer Science: Concepts and Principles
Jordi Vallverdú (Universitat Autonoma de Barcelona, Spain)

Thinking Machines and the Philosophy of Computer Science: Concepts and Principles presents a conversation between established experts and new researchers in the field of philosophy and computer science about human and non-human relationships with the environment. This resource contains five sections including topics on philosophical analysis, the posterior ethical debate, the nature of computer simulations, and the crossroads between robotics, AI, cognitive theories and philosophy.

Large-Scale Distributed Computing and Applications: Models and Trends
Valentin Cristea (Politehnica University of Bucharest, Romania), Ciprian Dobre (Politehnica University of Bucharest, Romania), Corina Stratan (Politehnica University of Bucharest, Romania), and Alexandru Costan (Politehnica University of Bucharest, Romania)

Large-Scale Distributed Computing and Applications: Models and Trends offers a coherent and realistic image of today’s research results in large scale distributed systems, explains state-of-the-art technological solutions for the main issues regarding large scale distributed systems, and presents the benefits of using large scale distributed systems and the development process of scientific and commercial distributed applications.

Soft Computing Methods for Practical Environment Solutions: Techniques and Studies
Marcos Gestal Pose (University of A Coruna, Spain) and Daniel Rivero Cebrián (University of A Coruna, Spain)

Soft Computing Methods for Practical Environment Solutions: Techniques and Studies presents various practical applications of Soft Computing techniques in real-world situations and problems, aiming to show the enormous potential of such techniques in solving all kinds of problems, and thus, providing the latest advances in these techniques in an extensive state-of-the-art and a vast theoretical study. Ideal for students studying AI and researchers familiarizing themselves with such techniques, so to offer recent and novel applications, helping expand and explore new areas of research.

Designing Solutions-Based Ubiquitous and Pervasive Computing: New Issues and Trends
Francisco Milton Mendes Neto (Rural Federal University of Semi-Arid, Brazil) and Pedro Fernandes Ribeiro Neto (State University of Rio Grande do Norte, Brazil)

Designing Solutions-Based Ubiquitous and Pervasive Computing: New Issues and Trends examines current practices and challenges faced by designers of Ubiquitous and Pervasive Computing projects. Analyzing theoretical assumptions, empirical research, practical implementations, and case studies, this book intends to present a comprehensive yet concise overview of the recent progress in ubiquitous and pervasive computing applications, as well as discuss new methodologies, technologies and approaches currently practiced. Truly interdisciplinary, this publication serves as a valuable reference for researchers in the fields of electrical engineering and computer science, students, educators, and industrial trainers interested in network sensors, embedded systems, distributed systems, computer networks, and computer science.

Intelligent Soft Computation and Evolving Data Mining: Integrating Advanced Technologies
Leon Shyue-Liang Wang (National University of Kaohsiung, Taiwan) and Tzung-Pei Hong (National University of Kaohsiung, Taiwan)

Intelligent Soft Computation and Evolving Data Mining: Integrating Advanced Technologies is a compendium that addresses this need. It integrates contrasting techniques of conventional hard computing and soft computing to exploit the tolerance for imprecision, uncertainty, partial truth, and approximation to achieve tractability, robustness and low-cost solution. This book provides a reference to researchers, practitioners, and students in both soft computing and data mining communities, forming a foundation for the development of the field.
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Intelligent Techniques for Warehousing and Mining Sensor Network Data
Alfredo Cuzzocrea (University of Calabria, Italy)

Intelligent Techniques for Warehousing and Mining Sensor Network Data presents fundamental and theoretical issues pertaining to data management. Covering a broad range of topics on warehousing and mining sensor networks, this advanced title provides significant industry solutions to those in database, data warehousing, and data mining research communities.

Strategic Advancements in Utilizing Data Mining and Warehousing Technologies: New Concepts and Developments
David Taniar (Monash University, Australia) and Laura Irina Rusu (Latrobe University, Australia)

Strategic Advancements in Utilizing Data Mining and Warehousing Technologies: New Concepts and Developments discusses developments in data mining and warehousing as well as techniques for successful implementation. Contributions investigate theoretical queries along with real-world applications, providing a useful foundation for academicians and practitioners to research new techniques and methodologies.

Handbook of Research on Building Information Modeling and Construction Informatics: Concepts and Technologies
Jason Underwood (University of Salford, UK) and Umit Isikdag (Bilkent University, Turkey)

The Handbook of Research on Building Information Modeling and Construction Informatics: Concepts and Technologies addresses the problems related to information integration and interoperability throughout the lifecycle of a building. This Handbook of Research provides comprehensive coverage and definitions of the most important issues, concepts, trends, and technologies within the field.

Technologies for Electrical Power Conversion, Efficiency, and Distribution: Methods and Processes
Mihail Hristov Antchev (Technical University of Sofia, Bulgaria)

Technologies for Electrical Power Conversion, Efficiency, and Distribution: Methods and Processes discusses achievements and trends with electrical energy conversion technologies and renewable energy sources. These findings provide a background for the problems and opportunities of power efficiency and energy conversion to develop ways to implement such technologies in the future.

Cybernetics and Systems Theory in Management: Tools, Views, and Advancements
Steven E. Wallis (Director, Foundation for the Advancement of Social Theory, USA)

Cybernetics and Systems Theory in Management: Tools, Views, and Advancements provides new models and insights into how to develop, test, and apply more effective decision-making and ethical practices in an organizational setting. This critical mass of sought after knowledge with expert international contributions presents a cornerstone publication inspiring new directions of research and theory building.
Dynamic and Advanced Data Mining for Progressing Technological Development: Innovations and Systemic Approaches
ABM. Shawkat Ali (Central Queensland University, Australia) and Yang Xiang (Central Queensland University, Australia)
Dynamic and Advanced Data Mining for Progressing Technological Development: Innovations and Systemic Approaches discusses advances in modern data mining research in today's rapidly growing global and technological environment. This publication serves as an important reference tool to leading research within information search and retrieval techniques.

Emerging Systems Approaches in Information Technologies: Concepts, Theories, and Applications
David Paradice (Florida State University, USA)
Emerging Systems Approaches in Information Technologies: Concepts, Theories, and Applications presents research findings utilizing the incorporation of the systems approach into fields such as systems engineering, computer science, and software engineering. This publication provides academicians, practitioners, and researchers with the first resource that fully emphasizes the integration of this approach.

Using Activity Domain Theory for Managing Complex Systems
Lars Táxén (Linköping University, Sweden)
Using Activity Domain Theory for Managing Complex Systems offers a new approach towards managing the coordination of complex system development tasks. This unique book combines a deep understanding of concrete, every-day conditions of the telecom industry with innovative theoretical development of the Activity Domain Theory (ADT).

Scalable Fuzzy Algorithms for Data Management and Analysis
Anne Laurent (LIRMM, Univ. Montpellier 2, France) and Marie-Jeanne Lesot (LIP6, Univ. Paris 6, France)
Scalable Fuzzy Algorithms for Data Management and Analysis: Methods and Design presents innovative, cutting-edge fuzzy techniques that highlight the relevance of fuzziness for huge data sets in the perspective of scalability issues, from both a theoretical and experimental point of view. It covers a wide scope of research areas including data representation, structuring and querying as well as information retrieval and data mining. It encompasses different forms of databases, including data warehouses, data cubes, tabular or relational data, and many applications among which music warehouses, video mining, bioinformatics, semantic web and data streams.

Discoveries and Breakthroughs in Cognitive Informatics and Natural Intelligence
Yingxu Wang (University of Calgary, Canada)
Discoveries and Breakthroughs in Cognitive Informatics and Natural Intelligence provides emerging research topics in cognitive informatics research with a focus on such topics as reducing cognitive overload, real-time process algebra, and neural networks for iris recognition, emotion recognition in speech, and the classification of musical chords.

Handbook of Research on Software Engineering and Productivity Technologies: Implications of Globalization
Muthu Ramachandran (Leeds Metropolitan University, UK) and Rogério Atem de Carvalho (Instituto FederalFluminense, Brazil)
The Handbook of Research on Software Engineering and Productivity Technologies: Implications of Globalization provides an authoritative collection of international research on software engineering and enterprise systems. This Handbook of Research offers an innovative repository of knowledge useful to academicians, practitioners, and researchers in various related fields.
Computational Models, Software Engineering, and Advanced Technologies in Air Transportation: Next Generation Applications

Li Weigang (University of Brasilia, Brazil), Alexandre de Barros (University of Calgary, Canada), and Ítalo Romani de Oliveira (Atech Tecnologias Críticas, Brazil)

Computational Models, Software Engineering, and Advanced Technologies in Air Transportation: Next Generation Applications disseminates knowledge on modern information technology applications in air transportation. This advanced publication contains multi-disciplinary contributions from the highest reputed authorities in areas of information technology involving air traffic control, airport design, airline management, and operations.

Machine Learning Methods for Commonsense Reasoning Processes: Interactive Models

Xenia Naidenova (Military Medical Academy, Russia)

Machine Learning Methods for Commonsense Reasoning Processes: Interactive Models provides a unique view on classification as a key to human commonsense reasoning and transforms traditional considerations of data and knowledge communications. This book presents an effective classification of logical rules used in the modeling of commonsense reasoning.

Methodological Advancements in Intelligent Information Technologies: Evolutionary Trends

Vijayan Sugumaran (Oakland University, USA)

Methodological Advancements in Intelligent Information Technologies: Evolutionary Trends brings together research from international authors detailing developments in intelligent information technologies and their impact on organizational environments, covering topics on agent-based approaches to process management, semantic Web services, data mining techniques, engineering software technologies, and scalable and adaptive Web search engines.

Evolving Application Domains of Data Warehousing and Mining: Trends and Solutions

Pedro Nuno San-Banto Furtado (University of Coimbra, Portugal)

Evolving Application Domains of Data Warehousing and Mining: Trends and Solutions provides insight into the latest findings concerning data warehousing, data mining, and their applications in everyday human activities. This advanced publication offers insight into recent field trends, techniques on how these technologies operate, and analysis of their effects.

Advanced Operating Systems and Kernel Applications: Techniques and Technologies

Yair Wiseman (Bar-Ilan University, Israel) and Song Jiang (Wayne State University, USA)

Advanced Operating Systems and Kernel Applications: Techniques and Technologies discusses non-distributed operating systems that benefit researchers, academicians, and practitioners. This innovative publication includes an overview of topical issues, methods, and advancements in the field of one-processor operating systems.

Intelligent Systems for Automated Learning and Adaptation: Emerging Trends and Applications

Raymond Chiong (Swinburne University of Technology, Malaysia)

Intelligent Systems for Automated Learning and Adaptation: Emerging Trends and Applications presents methodologies, architectures, and approaches on experiential automated learning. This critical mass of sought after research assembles the most intriguing and innovative applications, advancements, and leading studies on the methodology of intellectual computing.
Text Mining Techniques for Healthcare Provider Quality Determination: Methods for Rank Comparisons
Patricia Cerrito (University of Louisville, USA)

Text Mining Techniques for Healthcare Provider Quality Determination: Methods for Rank Comparisons defines patient severity indices for risk adjustments and comparison of patient outcomes to assess quality factors. This Premier Reference Source examines the consequences of patient severity models and investigates the general assumptions required to perform standard severity adjustment.

Rare Association Rule Mining and Knowledge Discovery: Technologies for Infrequent and Critical Event Detection
Yun Sing Koh (AUT, New Zealand), Nathaniel Rountree (University of Otago, NZ)

Rare Association Rule Mining and Knowledge Discovery: Technologies for Infrequent and Critical Event Detection provides an in-depth compendium of current issues, trends, and technologies in association rule mining. Covering a comprehensive range of topics, this book discusses underlying frameworks, mining techniques, interest metrics, and real-world application domains within the field.

Data Warehousing Design and Advanced Engineering Applications: Methods for Complex Construction
Ladjel Bellatreche (Poitiers University, France)

Data Warehousing Design and Advanced Engineering Applications: Methods for Complex Construction covers the process of analyzing data to extract, transform, load, and manage the essential components of a data warehousing system. A defining collection of field discoveries, this title provides industry solutions for those involved in this distinct research community.

Encyclopedia of Artificial Intelligence (3 Vols.)
Juan Ramón Rabuñal Dopico (University of A Coruña, Spain), Julian Dorado (University of A Coruña, Spain), and Alejandro Pazos (University of A Coruña, Spain)

Encyclopedia of Artificial Intelligence is a comprehensive and in-depth reference to the most recent developments in the field covering theoretical developments, techniques, technologies, and applications of systems using intelligent characteristics for adaptability, automatic learning, classification, prediction, and even artistic creation. Among others, authored by over 400 of the world’s leading experts from more than 40 countries, this commanding reference of 237 articles is essential to any research library’s technology holdings.

Model-Driven Software Development: Integrating Quality Assurance
Jörg Rech (Fraunhofer Institute for Experimental Software Engineering, Germany) and Christian Bunse (International University in Germany, Germany)

Model-Driven Software Development: Integrating Quality Assurance provides in-depth coverage of important concepts, issues, trends, methodologies, and technologies in quality assurance for model-driven software development. This Premier Reference Source provides educators, researchers, and practitioners with a comprehensive overview of current trends in research and practice of quality assurance in MDSD.

Handbook of Research on Machine Learning Applications and Trends: Algorithms, Methods, and Techniques (2 Vols.)
Emilio Soria Olivas (University of Valencia, Spain), José David Martín Guerrero (University of Valencia, Spain), Marcelino Martínez Sober (University of Valencia, Spain), Jose Rafael Magdalena Benedito (University of Valencia, Spain), and Antonio José Serrano López (University of Valencia, Spain)

The Handbook of Research on Machine Learning Applications and Trends: Algorithms, Methods, and Techniques provides practical applications for solving problems and applying various techniques in automatic data extraction and setting. This Handbook of Research fills the gap between theory and practice, providing a strong reference for academicians, researchers, and practitioners.
Encyclopedia of Information Science and Technology, Third Edition (10 Vols.)

Mehdi Khosrow-Pour, D.B.A. (Information Resources Management Association, USA)
ISBN: 978-1-4666-5888-2; EISBN: 978-1-4666-5889-9; © 2015; 10,384 pages.

The Encyclopedia of Information Science and Technology, Third Edition is a 10-volume compilation of authoritative, previously unpublished research-based articles contributed by thousands of researchers and experts from all over the world. This discipline-defining encyclopedia will serve research needs in numerous fields that are affected by the rapid pace and substantial impact of technological change. With an emphasis on modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field, it is a relevant and essential addition to any academic library’s reference collection.

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"... A defining reference source on the current issues, innovations, opportunities, and challenges related to Information Science and Technology. The breadth and depth of coverage are astonishing! The Encyclopedia of Information Science and Technology, Third Edition has established a true landmark in IT academic publication."

- In Lee, Western Illinois University, USA

“One of the biggest events in the global publishing market, this 10-volume encyclopedia is a compendium of knowledge about the complex issues related to ICT. Both an academic textbook and cookbook for practitioners operating in this area, it was developed by experts from around the world. Dr. Mehdi Khosrow-Pour managed the work, which guarantees a high quality development. Presented knowledge will be useful especially for students: economics, management, engineering, production, and students of MBA and other postgraduate studies, as well as for managers and employees in all types of organizations.”

- Professor Jerzy Kisielnicki, Warsaw University

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Education

Education is at the forefront of international discussion as various regions strive to uncover the best methods and tools for teaching the next generation of global leaders. Staying abreast of the latest trends and methodologies in pedagogical practice and theory, as well as educational administration and leadership can assist teachers, administrators, and policy makers in improving the learning experience of students of all ages.

IGI Global’s Education subject area provides titles encompassing all facets of education from curriculum design and development to various business models and promotional tools within the education sector. Additional topics of interests include learning theory, K-12 education, educational technologies, adult and lifelong learning, special education, educational administration and policy, and higher education. Titles in IGI Global’s Education subject area are designed for academics and educational leaders in search of information on the current and future state of education and the tools enabling successful learning outcomes.

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Assessing the Role of Mobile Technologies and Distance Learning in Higher Education

Patricia Ordóñez de Pablos (University of Oviedo, Spain), Robert D. Tennyson (University of Minnesota, USA), and Miltiadis D. Lytras (American College of Greece, Greece)

Assessing the Role of Mobile Technologies and Distance Learning in Higher Education provides a comprehensive understanding of m-learning processes by discussing challenges in higher education and the role of information technologies for effective learning. This reference book offers both real experiences and theoretical input for educators and students, as well as industry professionals, computer scientists, and engineering specialists in a wide variety of disciplines.

Critical Examinations of Distance Education Transformation across Disciplines

Abigail G. Scheg (Elizabeth City State University, USA)

Critical Examinations of Distance Education Transformation across Disciplines provides an interdisciplinary look at the development of distance education in higher education institutions. This reference work bridges the gap between disciplines by offering practical tools and solutions for successful distance education implementation. Educators, administrators, and researchers across academia will find this publication a timely and relevant resource.

Models for Effective Service Delivery in Special Education Programs

Pam Epier (Grand Canyon University, USA) and Rorie Ross (Grand Canyon University, USA)

Models for Effective Service Delivery in Special Education Programs brings together case studies and academic research on successful classroom models and practices to provide rewarding learning environments for students with disabilities. This publication is an essential reference source for special education teachers, supervisors, directors, and administrators, as well as academic leaders and researchers interested in developing special education programs within school districts and classrooms.

New Voices in Higher Education Research and Scholarship

Filipa M. Ribeiro (University of Porto, Portugal), Yurgos Politis (University College Dublin, Ireland), and Bojana Culum (University of Rijeka, Croatia)

New Voices in Higher Education Research and Scholarship explores the role of higher education in today's society. It discusses the rapidly changing nature of higher education around the globe, especially the relationship between higher education and social development. This reference book will be of use to policymakers, academicians, researchers, students, and government officials.
Intelligent Web-Based English Instruction in Middle Schools
Jiyou Jia (Peking University, China)

Intelligent Web-Based English Instruction in Middle Schools addresses the concerns associated with the use of computer-based systems in teaching English as a foreign language, proving the effectiveness and efficiency of technological integration in modern classrooms. Highlighting cases based on current practices in four diverse schools, this book is a vital reference source for practitioners and researchers interested in the educational benefits of educational technologies in language acquisition.

Handbook of Research on Teaching Methods in Language Translation and Interpretation
Ying Cui (Shandong University, Weihai, China) and Wei Zhao (Shandong University, Weihai, China)
The Handbook of Research on Teaching Methods in Language Translation and Interpretation presents an interdisciplinary approach to educational contexts across cultures for the study of verbal and written linguistics in order to broaden students' communicative and problem solving abilities. This book is an essential reference source for academicians, researchers, professionals, and students in the fields of education and linguistics, interested in the assessment and evaluation of pedagogical research to enhance learning methodologies and practices.

Methodologies for Effective Writing Instruction in EFL and ESL Classrooms
Rahma Al-Mahrooqi (Sultan Qaboos University, Oman), Vijay Singh Thakur (Dhofar University, Oman), and Adrian Roscoe (Sultan Qaboos University, Oman)
Methodologies for Effective Writing Instruction in EFL and ESL Classrooms brings together research and practices for successful written communication teaching among students of diverse linguistic backgrounds. With technological advancements and resources, educators are able to implement new tools into their lesson plans for the benefit of their students. This publication is an essential reference source for professionals, educators, and researchers interested in techniques and practices for written communication in English language teaching geared towards non-native English speaking students.

Student-Teacher Interaction in Online Learning Environments
Robert D. Wright (University of North Texas, USA)
Student-Teacher Interaction in Online Learning Environments provides successful strategies and procedures for developing policies to bring about an awareness of the practices that enhance online learning. This reference book provides building blocks to help improve the outcome of online coursework and discusses social presence to help improve performance, interaction, and a sense of community for all participants in an online arena. This book is of essential use to online educators, administrators, researchers, and students.

Cases on Instructional Technology in Gifted and Talented Education
Lesia Lennex (Morehead State University, USA) and Kimberly Fletcher Nettleton (Morehead State University, USA)
Cases on Instructional Technology in Gifted and Talented Education provides educators with real-life examples and research-based directions for the use of digital media resources in classrooms at all academic levels. This reference work will appeal to educators and researchers interested in enriching P-12 classrooms in order to extend student learning and promote effective e-learning in the classroom.

Cases on Technology Integration in Mathematics Education
Drew Polly (University of North Carolina at Charlotte, USA)
Cases on Technology Integration in Mathematics Education provides a compilation of cases and vignettes about the application of technology in the classroom in order to enhance student understanding of math concepts. This book is a timely reference source for mathematics educators, educational technologists, and school district leaders employed in the mathematics education or educational technology fields.
Promoting Active Learning through the Integration of Mobile and Ubiquitous Technologies

Jared Keengwe (University of North Dakota, USA)

Promoting Active Learning through the Integration of Mobile and Ubiquitous Technologies showcases the widely varied ways that technology can be applied to enhance classroom learning. Closely examining and critiquing the best methods in assimilating technologies, this publication is a valuable resource for faculty, teachers, administrators, technology staff, directors of learning centers, and other education technology leaders interested in incorporating new technologies within the classroom for engaging student learning.

Cases on Research-Based Teaching Methods in Science Education

Eugene de Silva (Virginia Research Institute, USA & MRAS - Walters State Community College, USA)

Cases on Research-Based Teaching Methods in Science Education addresses the problems currently facing science education in the USA and the UK, and suggests a new hands-on approach to learning. This book is an essential reference source for policymakers, academicians, researchers, educators, curricula developers, and teachers as they strive to improve education at the elementary, secondary, and collegiate levels.

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Artificial Intelligence Applications in Distance Education

Utku Kose (Usak University, Turkey) and Durmus Koc (Usak University, Turkey)

Artificial Intelligence Applications in Distance Education seeks to examine the efforts made to bridge the gap between student and educator with computer applications. Through an in-depth discussion of applications employed to overcome the problems encountered during educational processes, this premier reference collection aims to enhance teachers' and students' educational experiences and improve their knowledge of the literature and the latest developments in educational technologies.

Models for Improving and Optimizing Online and Blended Learning in Higher Education

Jared Keengwe (University of North Dakota, USA) and Joachim Jack Agamba (Idaho State University, USA)

Models for Improving and Optimizing Online and Blended Learning in Higher Education examines the benefits and costs associated with the utilization of technology-mediated instructional environments. Recognizing that instructional technology could offer alternative means of communication for understanding, this collection of scholarly chapters seeks to forward the discussion on technology tool optimization for academicians, researchers, librarians, students, practitioners, professionals, engineers, and managers.

Marketing the Green School: Form, Function, and the Future

Tak C. Chan (Kennesaw State University, USA), Evan G. Mense (Southeastern Louisiana University, USA), Kenneth E. Lane (Southeastern Louisiana University, USA), and Michael D. Richardson (Columbus State University, USA)

Marketing the Green School: Form, Function, and the Future features the latest research surrounding the operational efficiency, financial and legal considerations, and effectiveness of environmentally friendly school systems, as well as the integration of environmental education curriculum. Investigating the impact a green environment has on student well-being and success, this book is an essential reference source for school superintendents, school business managers, contractors, architects, and civil engineers interested in the development and promotion of green initiatives in educational institutions.

E-Learning as a Socio-Cultural System: A Multidimensional Analysis

Vaiča Zuzevičiūtė (Mykolas Romeris University, Lithuania), Edita Butrimė (Lithuanian University of Health Sciences, Lithuania), Daiva Vitkutė-Addzaukiene (Vytautos Magnus University, Lithuania), Vladimir Vladimirovich Fomin (Vytautos Magnus University, Lithuania), and Kathy Kikis-Papadakis (Foundation for Research and Technology, Greece)

E-Learning as a Socio-Cultural System: A Multidimensional Analysis provides readers with a critical examination of the theories, models, and best practices in online education from a social perspective, evaluating blended, distance, and mobile learning systems with a focus on the interactions of their practitioners. Within the pages of this volume, teachers, students, administrators, policy makers, and IT professionals will all find valuable advice and enriching personal experiences in the field of online education.
Effects of Information Capitalism and Globalization on Teaching and Learning

Blessing F. Adeoye (University of Lagos, Nigeria) and Lawrence Tomei (Robert Morris University, USA)

Effects of Information Capitalism and Globalization on Teaching and Learning examines issues concerning emerging multimedia technologies and their challenges and solutions in teaching and learning. This premier reference work explores the global society’s effect on learning, a crucial topic for educators, technologists, students, and researchers looking to find, create, or adapt technology for use in other cultures.

Advancing Knowledge in Higher Education: Universities in Turbulent Times

Tanya Fitzgerald (La Trobe University, Australia)

Advancing Knowledge in Higher Education: Universities in Turbulent Times addresses ways in which knowledge is shaped, produced, and reworked to meet international demands for productive workforces. Divided into three sections that interrogate the higher education policy context, knowledge production, and knowledge workers, this reference publication focuses on the role of higher education in business value creation and competitive advantage, serving as a useful reference for academicians, professionals, researchers, and students.

Handbook of Research on Higher Education in the MENA Region: Policy and Practice

Neeta Baporikar (Ministry of Higher Education, Oman)

The Handbook of Research on Higher Education in the MENA Region: Policy and Practice examines the need for a paradigm shift in the area of post-secondary education and innovation in the emerging, yet relatively understudied, MENA region. This book is a comprehensive reference work for researchers, students, educators, and professionals who are interested in exploring how global higher education is influencing the prosperity and progress of the MENA region.

Handbook of Research on Education and Technology in a Changing Society (2 Vols.)

Victor C.X. Wang (Florida Atlantic University, USA)

The Handbook of Research on Education and Technology in a Changing Society offers an in-depth description of concepts related to different areas, issues, and trends within education and technological integration in modern society. This handbook includes definitions and terms, as well as explanations of concepts and processes regarding the integration of technology into education. Addressing all pertinent issues and concerns in education and technology in our changing society with a wide breadth of discussion, this handbook is an essential collection for educators, academicians, students, researchers, and librarians.

Educational Technology Use and Design for Improved Learning Opportunities

Mehdi Khosrow-Pour (Information Resources Management Association, USA)

Educational Technology Use and Design for Improved Learning Opportunities presents broad coverage of topics pertaining to the development and use of technology both in and out of the classroom. Including research on technology integration in K-12, higher education, and adult learning, this publication is ideal for use by school administrators, academicians, and upper-level students seeking the most up-to-date tools and methodologies surrounding educational technology.
Handbook of Research on Digital Tools for Writing Instruction in K-12 Settings

Rebecca S. Anderson (University of Memphis, USA) and Clif Mims (University of Memphis, USA)

The Handbook of Research on Digital Tools for Writing Instruction in K-12 Settings will provide research about how students use digital tools to write, both in and out of school settings, as well as discuss issues and concerns related to the use of these learning methods. This publication is beneficial to educators, professionals, and researchers working in the field of K-12 and teacher education.

Cases on Teacher Identity, Diversity, and Cognition in Higher Education

Paul Breen (Greenwich School of Management, UK)

Cases on Teacher Identity, Diversity, and Cognition in Higher Education seeks to address this change and provide an accurate depiction of the teaching profession today. This thought-provoking collection of cases covers a range of educational contexts from preschool teaching in Europe to higher education in Australia and North America, and draws on expert knowledge of these diverse contexts, centered on a common theme of teacher identity. This book can be used by teacher educators and trainee teachers, as well as those who have an interest in social research into teaching.

Handbook of Research on Trends in European Higher Education Convergence

Alina Mihaela Dima (Bucharest University of Economic Studies, Romania)

The Handbook of Research on Trends in European Higher Education Convergence aims to identify the indicators that meet the consensus of the academic community and higher education management experts. Analyzing the recognized trends within the publication and concluding which measures should be taken to improve convergence pace and avoid potential pitfalls; this reference book is a useful resource for academics and students, as well as specialists, policy makers, and professionals connected with the educational sector.

Cases on the Assessment of Scenario and Game-Based Virtual Worlds in Higher Education

Shannon Kennedy-Clark (Australian Catholic University, Australia), Kristina Everett (Australian Catholic University, Australia), and Penny Wheeler (Australian Catholic University, Australia)

Cases on the Assessment of Scenario and Game-Based Virtual Worlds in Higher Education is a comprehensive collection that provides aspects of assessment in virtual worlds combined with lessons learned from critical reflection. These case studies present successes, challenges, and innovations to be utilized as a framework for practitioners and researchers to base their own effective forms of scenario-based learning. This publication would be of particular interest to practice-based disciplines such as education, nursing, medicine, and social work.

Adult and Continuing Education: Concepts, Methodologies, Tools, and Applications (4 Vols.)

Information Resources Management Association (USA)

Adult and Continuing Education: Concepts, Methodologies, Tools, and Applications investigates some of the most promising trends in furthering education and professional development in a variety of settings and industries. With an extensive array of chapters on topics ranging from non-traditional students to online and distance education for adult learners, this multi-volume reference book will provide students, educators, and industry professionals with the tools necessary to make the most of their return to the classroom.

Innovative Technologies to Benefit Children on the Autism Spectrum

Nava R. Silton (Marymount Manhattan College, USA)

Innovative Technologies to Benefit Children on the Autism Spectrum brings together relevant theoretical frameworks and empirical research concerning the emerging technologies that benefit individuals living with autism. This book is an essential reference source for parents, teachers, special educators, researchers, academics, and other professionals seeking relevant information on the emerging technological advances available for individuals with neurodevelopmental disorders.
Cases on Teaching Critical Thinking through Visual Representation Strategies

Leonard J. Shedletsky (University of Southern Maine, USA) and Jeffrey S. Beaudry (University of Southern Maine, USA)

Cases on Teaching Critical Thinking through Visual Representation Strategies brings together research from scholars and professionals in the field of education to provide new insights into the use of visual aids for student development in reasoning and critical thinking. This essential reference source will enable academics, researchers, and practitioners in fields such as education, business, and technology to more effectively foster students’ critical thinking skills.

Online Tutor 2.0: Methodologies and Case Studies for Successful Learning

Francisco José García-Peñalvo (University of Salamanca, Spain) and Antonio Miguel Seoane-Pardo (University of Salamanca, Spain)

Online Tutor 2.0: Methodologies and Case Studies for Successful Learning demonstrates, through the exposure of successful cases in online education and training, the necessity of the human factor, particularly in teaching/tutoring roles, for ensuring the development of quality and excellent learning activities. The didactic patterns derived from these experiences and methodologies will provide a basis for a more powerful and efficient new generation of technology-based learning solutions for high school teachers, university professors, researchers, and students at all levels of education.

Handbook of Research on Pedagogical Innovations for Sustainable Development

Ken D. Thomas (Auburn University, USA) and Helen E. Muga (University of Mount Union, USA)

Cases on Pedagogical Innovations for Sustainable Development brings together case study examples in the fields of sustainability, sustainable development, and education for sustainable development. This book will be an essential reference for educators, teachers, trainers at all levels of education, sustainable development practitioners, education policy makers, and the public at large.

Andragogical and Pedagogical Methods for Curriculum and Program Development

Victor C.X. Wang (Florida Atlantic University, USA) and Valerie C. Bryan (Florida Atlantic University, USA)

Andragogical and Pedagogical Methods for Curriculum and Program Development offers an in-depth description of key terms and concepts related to curriculum and program development for both faculty and students, as well as program designers, instructional program developers, trainers, and librarians.

Multicultural Awareness and Technology in Higher Education: Global Perspectives

Tomayess Issa (Curtin University, Australia), Pedro Isais (Universidade Aberta (Portuguese Open University), Portugal), and Piet Kommers (University of Twente, The Netherlands)

Multicultural Awareness and Technology in Higher Education: Global Perspectives encompasses the latest research on the impact and integration of technology into international education and culturally diverse learning environments. Providing the latest teaching and learning methods, technologies, and approaches at the university level, this publication is a useful reference for academics, educational administrators in public and private institutions, and information society researchers.

Handbook of Research on Emerging Priorities and Trends in Distance Education: Communication, Pedagogy, and Technology

T. Volkan Yuzer (Anadolu University, Turkey) and Gulisun Eby (Anadolu University, Turkey)

The Handbook of Research on Emerging Priorities and Trends in Distance Education: Communication, Pedagogy, and Technology focuses on the latest innovations and technological developments surrounding distance learning, instructional design, and computer-mediated communication in educational settings. This comprehensive research work will be of use to teachers, academicians, IT developers, upper-level students, and school administrators interested in the latest trends in online learning.
Cutting-Edge Technologies and Social Media Use in Higher Education
Vladlena Benson (Kingston University, UK) and Stephanie Morgan (Kingston University, UK)

Cutting-Edge Technologies and Social Media Use in Higher Education brings together research on the multi-faceted nature and overarching impact of social technologies on the main opportunities and challenges facing today’s post-secondary classrooms. From issues of social capital formation to student support and recruitment, this book provides educators, administrators, employers, and leaders with the necessary insight and practical perspectives to thrive within an evolving education system.

Building Online Communities in Higher Education Institutions: Creating Collaborative Experience
Carolyn N. Stevenson (Kaplan University, USA) and Joanna C. Bauer (Kaplan University, USA)

Building Online Communities in Higher Education Institutions: Creating Collaborative Experience cultivates knowledge on topics pertaining to the improvement of communication and collaboration in online learning communities. Advancing the current scope of research in this field, this book is designed for use by faculty, students, researchers, practitioners, and college administrators interested in strengthening communication and collaboration in virtual settings.

Cross-Cultural Online Learning in Higher Education and Corporate Training
Jared Keengwe (University of North Dakota, USA), Grace Onchwari (University of North Dakota, USA), and James Ogara (Canisius College, USA)

Cross-Cultural Online Learning in Higher Education and Corporate Training brings together professional discourse regarding best practices, challenges, and insights on both higher education and corporate training settings. This book is a vital instrument for instructional designers, faculty, administrators, corporate trainers, students and researchers interested in design and facilitation of online learning for a global audience.

Cases on Critical and Qualitative Perspectives in Online Higher Education
Myron Orleans (California State University, Fullerton, USA)

Cases on Critical and Qualitative Perspectives in Online Higher Education offers a collection of informal, personalized articles that identify, describe, and examine actual experiential domains of online program and course production. Administrators, developers, instructors, staff, technical support, and students in the field of online higher education will benefit from these case studies to reinforce and enhance their work.

Promoting Active Learning through the Flipped Classroom Model
Jared Keengwe (University of North Dakota, USA), Grace Onchwari (University of North Dakota, USA), and James Ogara (Canisius College, USA)

Promoting Active Learning Through the Flipped Classroom Model focuses on an in-depth assessment on strategies and instructional design practices appropriate for the flipped classroom model. Highlighting the benefits, shortcomings, perceptions, and academic results of the flipped classroom model, this book is an essential reference for students, educators, administrators, and researchers interested emerging approach to improving student learning.
the area of blended education knowledge. This book is an essential tool for administrators, technology leaders, faculty, teachers, technology staff, and other education-related stakeholders in various education-related disciplines. It offers practical approaches to resolve the challenges of technology integrations for teachers while offering best practices for transforming education. Highlighting both formal and informal uses of social interaction tools as learning tools, this book will be very useful to all educators, trainers and academic researchers in all aspects of education looking for a theoretical/practical approach to resourceful teaching.

Practical Applications and Experiences in K-20 Blended Learning Environments

Lydia Kyei-Blankson (Illinois State University, USA) and Esther Ntuli (Idaho State University, USA)

Practical Applications and Experiences in K-20 Blended Learning Environments compiles pedagogical strategies and technologies and their outcomes that have been successfully applied in blended instruction. Highlighting best practices as elementary, secondary, and tertiary educational levels; this book is a vital tool for educators who teach or plan to teach in blended learning environments and for researchers interested in the area of blended education knowledge.

Literacy Enrichment and Technology Integration in Pre-Service Teacher Education

Jared Keengwe (University of North Dakota, USA), Grace Onchwari (University of North Dakota, USA), and Darrell Hucks (Keene State College, USA)

Literacy Enrichment and Technology Integration in Pre-Service Teacher Education examines the various strategies to resolve the challenges of technology integrations for teachers while offering best practices for transforming education. Focusing on the future of technology integration in education; this book is an essential tool for administrators, technology leaders, faculty, teachers, technology staff, and other education-related technology stakeholders in various education-related disciplines.

Cross-Cultural Considerations in the Education of Young Immigrant Learners

Jared Keengwe (University of North Dakota, USA) and Grace Onchwari (University of North Dakota, USA)

Cross-Cultural Considerations in the Education of Young Immigrant Learners explores some of the contemporary research on young immigrant learners in the United States, reflecting on their particular struggles in language learning, cultural integration, and other curricular and extra-curricular activities. This book will be most useful to teachers, administrators, researchers, and professionals within the public education sector who are looking for enhanced methodologies in the instruction of their multinational students.

Critical Practice in P-12 Education: Transformative Teaching and Learning

Salika A. Lawrence (William Paterson University, USA)

Critical Practice in P-12 Education: Transformative Teaching and Learning presents a framework for teaching that empowers students, fosters literacy development, and explains the underlying factors that influence pedagogy. Highlighting practices from around the globe; this book is an essential tool for P-12 educators, pre-service and in-service teachers, administrators, teacher educators, and researchers across social science disciplines that have an interest in field-based educational research.

E-Learning 2.0 Technologies and Web Applications in Higher Education

Jean-Eric Pelet (KMCMS, IDRAC International School of Management, University of Nantes, France)

E-Learning 2.0 Technologies and Web Applications in Higher Education compiles the latest empirical research findings in the area of e-learning and knowledge management technologies assessment. Highlighting specific comparisons and practices of e-learning and knowledge management technologies, this book is an essential guide for professionals and academics who want to improve their understanding of the strategic role of e-learning at different levels of the information and knowledge society.

The Social Classroom: Integrating Social Network Use in Education

Gorg Mallia (University of Malta, Msida, Malta)

The Social Classroom: Integrating Social Network Use in Education collates different viewpoints on how social networking sites can be integrated in education. Highlighting both formal and informal uses of social interaction tools as learning tools, this book will be very useful to all educators, trainers and academic researchers in all aspects of education looking for a theoretical/practical approach to resourceful teaching.
Psychology, Pedagogy, and Assessment in Serious Games

Thomas M. Connolly (University of the West Scotland, UK), Thomas Heaney (University of the West Scotland, UK), Elizabeth Boyle (University of the West Scotland, UK), Gavin Baxter (University of the West Scotland, UK), and Pablo Moreno-Ger (Complutense University of Madrid, Spain)

Psychology, Pedagogy, and Assessment in Serious Games addresses this issue by offering empirical evidence for the effectiveness of Serious Games in the key areas of psychology, pedagogy, and assessment. Emphasizing both the theory and practice in the learning and training of Serious Games, this book is useful to educationalists, researchers, sociologists, and psychologists interested in the potential of games to support learning and change behaviour.

Academic Knowledge Construction and Multimodal Curriculum Development

Douglas J. Loveless (James Madison University, USA), Bryant Griffith (Texas A&M University-Corpus Christi, USA), Margaret E. Bérci (College of Staten Island/CUNY, USA), Evan Ortílie (Monash University, Australia), and Pamela M. Sullivan (James Madison University, USA)

Academic Knowledge Construction and Multimodal Curriculum Development presents practical conversations with philosophical and theoretical concerns regarding the use of digital technologies in the educational process. This book will also aim to challenge the assumption that information accessibility is synonymous with learning. It is an essential reference for educators and practitioners interested in examining the complexity of academic knowledge construction in multimodal, digital worlds.

Advanced Research in Adult Learning and Professional Development: Tools, Trends, and Methodologies

Victor C.X. Wang (Florida Atlantic University, USA)

Advanced Research in Adult Learning and Professional Development: Tools, Trends, and Methodologies explores the understanding, practice, and research within technical education and professional development. By providing a comprehensive view on educational technologies for adult learning, this book is essential for lecturers, practitioners, as well as academics interested in a variety of research in continuing education.

Assessment and Evaluation of Time Factors in Online Teaching and Learning

Elena Barbera (eLearn Centre, Universitat Oberta de Catalunya, Spain), Peter Reimann (CoCo Center, and University of Sydney, Australia)

Assessment and Evaluation of Time Factors in Online Teaching and Learning combines empirical and methodological research to study the role of time comprehensively from an institutional and management perspective, a technological perspective, and a pedagogical perspective. Focusing on higher education, this book is aimed at educational researchers, social science researchers, teachers, and students interested in improving the learning process and experience.

Pedagogical Considerations and Opportunities for Teaching and Learning on the Web

Michael Thomas (University of Central Lancashire, UK)

Pedagogical Considerations and Opportunities for Teaching and Learning on the Web concentrates on theory, application, and the development of web-based technologies for teaching and learning and its influence on the education system. This book would be of particular interest to academics, professionals, and researchers interested in the best practices of virtual learning environments.

Synergic Integration of Formal and Informal E-Learning Environments for Adult Lifelong Learners

Sabrina Leone (Università Politecnica delle Marche, Italy)

Synergic Integration of Formal and Informal E-Learning Environments for Adult Lifelong Learners presents a collection of issues and research from adult education professionals who define, develop, implement, and evaluate the integration of formal and informal eLearning environments for adult lifelong learners. Academics, teachers, administrators, and learning technologists will benefit from this publication’s unique approach to discussing and analyzing the challenges of introducing and implementing learning technologies for adult lifelong learners.
Packaging Digital Information for Enhanced Learning and Analysis: Data Visualization, Spatialization, and Multidimensionality
Shalin Hai-Jew (Kansas State University, USA)

Packaging Digital Information for Enhanced Learning and Analysis: Data Visualization, Spatialization, and Multidimensionality brings together effective practices for the end-to-end capture and web based presentation of information for comprehension, analysis, and decision-making. This publication is beneficial for educators, trainers, instructional designers, web designers, and graduate students interested in improving analytical tools.

International Education and the Next-Generation Workforce: Competition in the Global Economy
Victor C.X. Wang (Florida Atlantic University, USA)

International Education and the Next-Generation Workforce: Competition in the Global Economy presents a detailed discussion of present educational principles and policies, and their impact on the effectiveness of education in a multi-national context. The chapters in this pivotal reference contribute to the body of literature bridging the gap between the fields of business and education, providing educators and business professionals at all levels with an instruction manual for the next generation of employment-focused teaching and learning.

Mobile Pedagogy and Perspectives on Teaching and Learning
Douglas McConatha (West Chester University, USA), Christian Penny (West Chester University, USA), Jordan Schugar (West Chester University, USA), and David Bolton (West Chester University, USA)

Mobile Pedagogy and Perspectives on Teaching and Learning explores the tools and techniques that enable educators to leverage wireless applications and social networks to improve learning outcomes and provide creative ways to increase access to educational resources. This publication is designed to help educators and students at every level make use of mobile learning resources to enhance the educational experience and improve the effectiveness of the learning process regardless of physical location.

Exploring Technology for Writing and Writing Instruction
Kristine E. Pytash (Kent State University, USA) and Richard E. Ferdig (Research Center for Educational Technology - Kent State University, USA)

Exploring Technology for Writing and Writing Instruction examines the use of writing technologies in early childhood, elementary, secondary, and post-secondary classrooms, as well as in professional development contexts. This book provides researchers, scholars, students, educators, and professionals around the world with access to the latest knowledge on writing technology and methods for its use in the classroom.
Outlooks and Opportunities in Blended and Distance Learning
B. Tynan (University of Southern Queensland, Australia), J. Willems (Monash University, Australia), and R. James (University of New England, Australia)

Outlooks and Opportunities in Blended and Distance Learning investigates the impact of the digital age on various methods of distance education, such as e-learning, virtual learning, online learning, and m-learning. Researchers, educators, and students currently engaged in or looking to implement distance education principles in their own practices will find a seminal reference collection exploring new methods of offering flexibility, accessibility, and freedom to students with a variety of educational backgrounds, situations, and needs.

Strategic Role of Tertiary Education and Technologies for Sustainable Competitive Advantage
Patricia Ordóñez de Pablos (University of Oviedo, Spain) and Robert D. Tennison (University of Minnesota, USA)

Strategic Role of Tertiary Education and Technologies for Sustainable Competitive Advantage explores how education enables social and economic development through the targeted training of human capital and the evaluation and dissemination of knowledge resources across generations. This book provides entrepreneurs, leaders, policy makers, and educators with the necessary tools to make the most of higher education in order to meet emerging economic and social challenges through the use of new technologies enabling effective collaboration and knowledge sharing.

Cases on Educational Technology Planning, Design, and Implementation: A Project Management Perspective
Angela D. Benson (University of Alabama, USA), Joi L. Moore (University of Missouri, USA), and Shahron Williams van Rooij (George Mason University, USA)

Cases on Educational Technology Planning, Design, and Implementation: A Project Management Perspective provides strategies for addressing the challenges and pitfalls faced when planning, designing, and implementing learning and educational technology projects. The case studies in this publication aim to provide instructors, practitioners in K-12 and higher education, business managers as well as students interested in implementing education technology projects.

Handbook of Research on Teaching and Learning in K-20 Education (2 Vols.)
Victor C.X. Wang (Florida Atlantic University, USA)

Handbook of Research on Teaching and Learning in K-20 Education provides well-rounded research in providing teaching and learning theories that can be applied to both adults and children while acknowledging the difference between both. This book serves as a comprehensive collection of expertise, research, skill, and experiences which will be useful to educators, scholars, and practitioners in the K-12 education, higher education, and adult education field.

Advancing Library Education: Technological Innovation and Instructional Design
Ari Sigal (Catawba Valley Community College, USA)

Advancing Library Education: Technological Innovation and Instructional Design aims to provide relevant theoretical frameworks, empirical research, and new understandings for those interested in Library and Information Science and the impact new techniques and technologies are having in this area. Librarians, academics, and researchers will benefit from this careful look into current advancements in their field.

Design, Utilization, and Analysis of Simulations and Game-Based Educational Worlds
Richard E. Ferdig (Research Center for Educational Technology - Kent State University, USA)

Design, Utilization, and Analysis of Simulations and Game-Based Educational Worlds presents developments and evaluations of games and computer-mediated simulations in order to showcase a better understanding of the role of electronic games in multiple studies. This book is useful for researchers, practitioners, and policymakers to gain a deeper comprehension of the relationship between research and practice of electronic gaming and simulations in the educational environment.
Enhancing Mathematics Understanding through Visualization: The Role of Dynamical Software
Samer Habre (Lebanese American University, Lebanon)

Enhancing Mathematics Understanding through Visualization: The Role of Dynamical Software brings these conflicting viewpoints together by offering visual representations as a method of mathematics instruction. The book explores the role of technology in providing access to multiple representations of concepts, using software applications to create a rich environment in which a student’s understanding of mathematical concepts can flourish. Both students and instructors of mathematics at the university level will use this book to implement various novel techniques for the delivery of mathematical concepts in their classrooms. This book is part of the Research Essential collection.

Common Core Mathematics Standards and Implementing Digital Technologies
Drew Polly (University of North Carolina, USA)

Common Core Mathematics Standards and Implementing Digital Technologies provides a critical discussion of educational standards in mathematics and how communication technologies can support the implementation of common practices across state lines. Leaders in the fields of mathematics education and educational technology will find an examination of the Common Core State Standards in Mathematics through concrete examples, current research, and best practices for teaching all students regardless of grade level or regional location. This book is part of the Advances in Educational Technologies and Instructional Design series collection.

New Pedagogical Approaches in Game Enhanced Learning: Curriculum Integration
Sara de Freitas (University of Coventry, UK), Michela Ott (Institute for Educational Technology of the Italian National Research Council, Italy), Maria Magdalena Popescu (Carol I National Defence University, Romania), and Ioana Stanescu (Advanced Distributed Learning, Romania)

New Pedagogical Approaches in Game Enhanced Learning: Curriculum Integration addresses the major challenges associated with adopting digital games into a standard curriculum. By providing fresh perspectives from current practitioners in the education field, this publication serves as a guide for successfully implementing game learning and provides a valuable reference for educators, professionals, and even parents.

Enhancing Instruction with Visual Media: Utilizing Video and Lecture Capture
Ellen G. Smyth (Austin Peay State University, USA) and John X. Volker (Austin Peay State University, USA)

Enhancing Instruction with Visual Media: Utilizing Video and Lecture Capture offers unique approaches for integrating visual media into an instructional environment by covering the impact media has on student learning and various visual options to use in the classroom. Professors, researchers, and instructional designers will benefit from the practical applications and suggestions offered through the integration of instructional videos in the learning process.

Learning Management Systems and Instructional Design: Best Practices in Online Education
Yefim Kats (Chestnut Hill College, USA)

Learning Management Systems and Instructional Design: Best Practices in Online Education provides an overview on the connection between learning management systems and the variety of instructional design models and methods of course delivery. This book is a useful source for administrators, faculty, instructional designers, course developers, and businesses interested in the technological solutions and methods of online education.

Technological Tools for the Literacy Classroom
Jeff Whittingham (University of Central Arkansas, USA), Stephanie Huffman (University of Central Arkansas, USA), Wendy Rickman (University of Central Arkansas, USA), and Cheryl Wiedmaier (University of Central Arkansas, USA)

Technological Tools for the Literacy Classroom combines practical and effective classroom practices with the latest technological research findings utilized in literacy instruction. This reference source is aimed for administrators, faculty, instructional designers, course developers, and businesses interested in improving their understanding of these new technologies.
Global Challenges and Perspectives in Blended and Distance Learning

J. Willems (Monash University, Australia), B. Tynan (University of Southern Queensland, Australia), and R. James (University of New England, USA)

Global Challenges and Perspectives in Blended and Distance Learning highlights the perspectives, challenges, and current practices within higher and distance education around the world. This reference source brings together a unique view of global research essential for academics, managers and leaders, researchers, and practitioners for a timely view of research themes in higher education and distance education.

ePedagogy in Online Learning: New Developments in Web Mediated Human Computer Interaction

Elspeth McKay (RMIT University, Australia)

ePedagogy in Online Learning: New Developments in Web Mediated Human Computer Interaction provides approaches on adopting interactive web tools that promote effective human-computer interaction in educational practices. This book is a vital tool for educational technology practitioners and researchers interested in incorporating e-learning practices in the education sector.

Cases on Quality Teaching Practices in Higher Education

Diane J. Salter (Consultant, Canada)

Cases on Quality Teaching Practices in Higher Education presents individual approaches and institutional examples to benefit teachers at the individual level as well as institutional leaders involved in change. This publication is suitable for both undergraduate and graduate level courses in education related best practices in pedagogy, innovation in the use of technology, and the future direction of universities in the advancement of teaching practices.

Serious Games and Virtual Worlds in Education, Professional Development, and Healthcare

Klaus Bredl (Institute for Media and Educational Technologies at Augsburg University, Germany) and Wolfgang Bösche (Institute of Psychology at University of Education Karlsruhe, Germany)

Serious Games and Virtual Worlds in Education, Professional Development, and Healthcare seeks to counter these doubts by explaining how digital environments can easily become familiar and beneficial for educational and professional development. Highlighting techniques beyond the traditional practice, this reference source is useful for researchers, academics, professionals, and students interested in the benefits to implementing these games into various aspects of our environment.

Cases on Educational Technology Implementation for Facilitating Learning

Albert D. Ritzhaupt (University of Florida, USA) and Swapna Kumar (University of Florida, USA)

Cases on Educational Technology Implementation for Facilitating Learning blends together vital research and advancements on educational technologies into one comprehensive collection; while structuring the information to make it accessible for implementation into the classroom. Academics, professors, and educators will find this casebook especially useful for integrating new aspects of technology into their programs.

Fostering 21st Century Digital Literacy and Technical Competency

Antonio Cartelli (University of Cassino and Southern Lazio, Italy)

Fostering 21st Century Digital Literacy and Technical Competency offers the latest in research on the technological advances on computer proficiency in the educational system and society. This collection of research brings together theories and experiences in order to create a common framework and is essential for educators and professionals in the technology fields.
Curriculum, Learning, and Teaching Advancements in Online Education

Mahesh S. Raisinghani
(Texas Woman’s University, USA)

Curriculum, Learning, and Teaching Advancements in Online Education highlights the models and frameworks that have been effective in the development of online education into the classroom. By bringing together knowledge and experience, this book allows educational technologies to be evaluated in a more dynamic context. It is suitable for teachers, researchers, and academic experts interested in rethinking the fundamental processes of teaching and learning.

Technology Use and Research Approaches for Community Education and Professional Development

Valerie Carson Bryan (Florida Atlantic University, USA) and Victor C.X. Wang (Florida Atlantic University, USA)

Technology Use and Research Approaches for Community Education and Professional Development investigates how the role of information technology is impacting the academic and workplace environments. This publication will explore areas such as unique learning styles, various methods of disseminating information, and technology’s role and impact within these settings. Researchers, practitioners, and instructors in the areas of adult, continued, and higher education will benefit from this text’s innovative way of addressing efficient methods of utilizing technology.

Theoretical and Computational Models of Word Learning: Trends in Psychology and Artificial Intelligence

Lakshmi Gogate (Florida Gulf Coast University, United States) and George Hollich (Purdue University, United States)

Theoretical and Computational Models of Word Learning: Trends in Psychology and Artificial Intelligence strives to combine cross-disciplinary research into one comprehensive volume to help readers gain a fuller understanding of the developmental processes and influences that makeup the progression of word learning. Blending together developmental psychology and artificial intelligence, this publication is intended for researchers, practitioners, and educators who are interested in language learning and its development as well as computational models formed from these specific areas of research.

Pedagogical Applications and Social Effects of Mobile Technology Integration

Jared Keengwe (University of North Dakota, USA)

Pedagogical Applications and Social Effects of Mobile Technology Integration analyzes possible solutions over the concerns and issues surrounding mobile technology integration into the classroom. This book is an essential resource for professionals, researchers, and technology leaders interested in providing a direction for the future of classroom technology.

Research Perspectives and Best Practices in Educational Technology Integration

Jared Keengwe (University of North Dakota, USA)

Research Perspectives and Best Practices in Educational Technology Integration highlights the emerging digital age, its complex transformation of the current educational system, and the integration of educational technologies into teaching strategies. This book offers best practices in the process of incorporating learning technologies into instruction and is an essential resource for academicians, professionals, educational researchers in education and educational-related fields.
Approaches and Strategies in Next Generation Science Learning

Myint Swe Khine (University of Bahrain, Bahrain) and Issa M. Saleh (University of Bahrain, Bahrain)

Approaches and Strategies in Next Generation Science Learning examines the challenges involved in the development of modern curriculum models, teaching strategies, and assessments in science education in order to prepare future students in the 21st century economies. This comprehensive collection of research brings together science educators, researchers and administrators interested in enhancing the teaching and learning of next generation science.

Cases on 3D Technology Application and Integration in Education

Kimberely Fletcher Nettleton (Morehead State University, USA) and Lesia Lennex (Morehead State University, USA)

Cases on 3D Technology Application and Integration in Education highlights the use of 3D technologies in the educational environment and the future prospects of adaptation and evolution beyond the traditional methods of teaching. This comprehensive collection of research aims to provide instructors and researchers with a solid foundation of information on 3D technology.

Computer-Assisted Foreign Language Teaching and Learning: Technological Advances

Bin Zou (Xi’an Jiaotong-Liverpool University, China), et al.

Computer-Assisted Foreign Language Teaching and Learning: Technological Advances highlights new research and an original framework that brings together foreign language teaching, experiments and testing practices that utilize the most recent and widely used e-learning resources. This comprehensive collection of research will offer linguistic scholars, language teachers and students as well as policymakers a better understanding of the importance and influence of e-learning in second language acquisition.

Project Management Approaches for Online Learning Design

Gulsun Eby (Anadolu University, Turkey) and T. Volkan Yüzer (Anadolu University, Turkey)

Project Management Approaches for Online Learning Design boldly focuses on this unique area of virtual learning by adopting a theoretical point of view and discussing the planning, organizing, securing and managing of resources to bring about the successful completion of online learning goals and objectives. This reference source brings together project management based approaches with an exclusive focus on each online learning design project.

Evolving Corporate Education Strategies for Developing Countries: The Role of Universities

B. PanduRanga Narasimharao (Indira Gandhi National Open University, India), S. Rangappa Kanchugarakoppal (Karnataka State Open University, India), Tukaram U. Fulzele (Indira Gandhi National Open University, India)

Evolving Corporate Education Strategies for Developing Countries: The Role of Universities presents the theories and abilities of integrating corporate education into traditional universities as well as highlighting the professional development in different subject areas. This book provides relevant research important for policy makers, practitioners and scholars of higher education.

Cases on Digital Game-Based Learning: Methods, Models, and Strategies

Youngkyun Baek (Boise State University, US) and Nicola Whitton (Manchester Metropolitan University, UK)

Cases on Digital Game-Based Learning: Methods, Models, and Strategies analyzes the implementation of digital game applications for learning as well as addressing the challenges and pitfalls experienced. Providing strategies, advice and examples on adopting games into teaching, this collection of case studies is essential for teachers and instructors at various school levels in addition to researchers in game-based learning and pedagogic innovation.
Social Media and the New Academic Environment: Pedagogical Challenges
Bogdan Patrut (Vasile Alecsandri University of Bacau, Romania), Monica Patrut (Vasile Alecsandri University of Bacau, Romania), and Camelia Cmeciu (Danubius University of Galati, Romania)
Social Media and the New Academic Environment: Pedagogical Challenges provides relevant theoretical frameworks and the latest research on social media and the challenges in the educational context. This book is essential for professionals aiming to improve their understanding of social media at different levels of education as well as researchers in the fields of e-learning, educational science and information and communication sciences and much more.

Immersive Environments, Augmented Realities, and Virtual Worlds: Assessing Future Trends in Education
Steven D'Agustino (Fordham University, New York)

Cases on Higher Education Spaces: Innovation, Collaboration, and Technology
Russell Carpenter (Eastern Kentucky University, USA)
Cases on Higher Education Spaces: Innovation, Collaboration, and Technology highlights key innovations and collaborative ventures in space design from across campuses and institutions. Including writing and communication centers, studios, libraries, digital media labs, learning commons, and academic learning spaces, making this collection ideally suited for university and professional administrators.

Technologies, Innovation, and Change in Personal and Virtual Learning Environments
Michael Thomas (University of Central Lancashire, UK)
Technologies, Innovation, and Change in Personal and Virtual Learning Environments presents a widespread collection of research on the growth, innovation and implementation of learning technologies for educators, technologists and trainers. The book is a useful source for academics and professionals interested in information and communication technologies.

Technologies for Inclusive Education: Beyond Traditional Integration Approaches
David Griol Barres (Carlos III University of Madrid, Spain), Zoraida Callejas Carrón (University of Granada, Spain), and Ramón López-Cózar Delgado (University of Granada, Spain)
Technologies for Inclusive Education: Beyond Traditional Integration Approaches introduces the basic concepts, current research guidelines and future perspectives on the current state of these approaches. This book aims to make inclusive education a reality in the future by highlighting technological advances in applied e-learning, cognitive learning and education multimedia. Novel approaches to human-computer interaction are essential to make these contents available for every student regardless of their disabilities and learning styles.

Innovations in Mobile Educational Technologies and Applications
David Parsons (Massey University - Auckland, New Zealand)
Innovations in Mobile Educational Technologies and Applications presents a collection of knowledge on the developments and approaches of mobile educational technology. Bringing together points of view from both technological and pedagogical practices, this book aims to enhance interest in nontraditional approaches to learning.
Handbook of Research on Technologies for Improving the 21st Century Workforce: Tools for Lifelong Learning (2 Vols.)

Victor C.X. Wang (Florida Atlantic University, USA)

The Handbook of Research on Technologies for Improving the 21st Century Workforce: Tools for Lifelong Learning addresses how technologies impact the combination of workforce education and adult learning. This comprehensive collection of research from leading authorities and front line faculty seeks to equip adult learners/employees with the right knowledge and skills to continue to contribute to the economy given the importance of the essential role of technologies.

Cases on Interdisciplinary Research Trends in Science, Technology, Engineering, and Mathematics: Studies on Urban Classrooms

Reneta D. Lansiquot (New York City College of Technology of the City University of New York, USA)

Cases on Interdisciplinary Research Trends in Science, Technology, Engineering, and Mathematics: Studies on Urban Classrooms presents research and information on implementing and sustaining interdisciplinary studies in science, technology, engineering, and mathematics for students and classrooms in an urban setting. This collection of research acts as a guide for researchers and professionals interested in improving learning outcomes for their students.

Multiculturalism in Technology-Based Education: Case Studies on ICT-Supported Approaches

Francisco José García Peñalvo (Universidad de Salamanca, Spain)

Multiculturalism in Technology-Based Education: Case Studies on ICT-Supported Approaches explores the multidisciplinary approaches to transculturality and multiculturalism and its influence on technology-based education. This comprehensive reference source is a collection of education cases which investigate transcultural education using theoretical aspects and practical applications inside a technological framework. This book aims to be a reference for university professors, students, and researchers alike.

Educational Communities of Inquiry: Theoretical Framework, Research, and Practice

Zehra Akyol (Independent Researcher, Canada) and D. Randy Garrison (University of Calgary, Canada)

Educational Communities of Inquiry: Theoretical Framework, Research, and Practice is an extensive reference that offers theoretical foundations and developments associated with the CoI theoretical framework. This collection is a valuable source of ideas, research opportunities, and challenges for scholars and practitioners in the field of education technology.

Technological Applications in Adult and Vocational Education Advancement

Victor C.X. Wang (Florida Atlantic University, USA)

Technological Applications in Adult and Vocational Education Advancement aims to advance the understanding, practice, and research within career and technical education. This book provides a global view on the education technologies for adult learning from leading scholars, theorists, and practitioners by sharing insights on innovative pedagogies and inspirational thoughts on the fields of adult education, technology, care, and technical education.

Academic Entrepreneurship and Technological Innovation: A Business Management Perspective

Anna Szoza (Jagiellonian University, Poland), Waldemar Karwowski (University of Central Florida, USA), and Patricia Ordóñez de Pablos (University of Oviedo, Spain)

Academic Entrepreneurship and Technological Innovation: A Business Management Perspective provides a wide-ranging overview of the relationship between universities and organizations through the most recent and detailed research on university entrepreneurship. This book aims to be a reference source for students, researchers, and practitioners interested in the academic industry’s demand for technological innovation.

For Free Trial Access, Please Contact an IGI Global Representative at 717-533-8845 x100 or eresources@igi-global.com
Handbook of Research on Didactic Strategies and Technologies for Education: Incorporating Advancements (2 Vols.)

Paolo M. Pumilia-Gnarini (Independent Researcher, Italy), Elena Favaron (La Scuola che Funziona, Italy), Elena Pacetti (University of Bologna, Italy), Jonathan Bishop (Centre for Research into Online Communities and E-Learning Systems, UK), and Luigi Guerra (University of Bologna, Italy)

The Handbook of Research on Didactic Strategies and Technologies for Education: Incorporating Advancements aims to be a platform for the most significant educational achievements by teachers, school administrators, and local associations that have worked together in public institutions that range from primary school to the university level. This book aims to be useful for both scholars and the citizens that are involved in improving the educational system.

Cases on Assessment and Evaluation in Education

Mehdi Khosrow-Pour (Information Resources Management Association, USA)

Cases on Assessment and Evaluation in Education presents a collection of case studies describing the methods used to assess an education course, what factors to assess, as well as which factors determine the success of these factors. This casebook aims to bring together different research perspectives on the questions surrounding the issues of educational assessment and evaluation.

Learning Tools and Teaching Approaches through ICT Advancements

Lawrence A. Tomei (Robert Morris University, USA)

Learning Tools and Teaching Approaches through ICT Advancements provides research regarding introducing, collaborating, analyzing, synthesizing, and evaluating innovative contributions to the theory, practice, and research of technology education applicable to K-12 education, higher education, and corporate and proprietary education. It grows this body of research, proposing new applications of technology for teaching and learning, and documenting those practices that contribute irrefutable verification of information technology education as a discipline.

Web-Based and Blended Educational Tools and Innovations

Nikos Karacapilidis (University of Patras, Greece), Mahesh S. Raisinghani (Texas Woman’s University, USA), and Eugenia M.W. Ng (Hong Kong Institute of Education, China)

Web-Based and Blended Educational Tools and Innovations contributes to this search for better teaching methods by exploring the technical, social, cultural, organizational, human, cognitive, and commercial impact of technology in education. This volume outlines the impact of Web-based technology on the design, implementation, and evaluation of the learning and teaching process, as well as the development of new activities, relationships, skills, and competencies for the various actors that is implied in such processes.

System and Technology Advancements in Distance Learning

Vive (k) Kumar (Athabasca University, Canada) and Fuhua Lin (Athabasca University, Canada)

System and Technology Advancements in Distance Learning meets this need, outlining computational methods, algorithms, implemented prototype systems, and applications of open and distance learning. It is targeted toward academic researchers and engineers who work with distance learning programs and software systems, as well as general participants of distance education.

Virtual Mentoring for Teachers: Online Professional Development Practices

Jared Keengwe (University of North Dakota, USA) and Lydia Kyei-Blankson (Illinois State University, USA)

Virtual Mentoring for Teachers: Online Professional Development Practices offers peer-reviewed essays and research reports contributed by an array of scholars and practitioners in the field of instructional technology and online education. It is organized around two primary themes: professional development models for faculty in online environments and understanding e-Learning and best practices in teaching and learning in online environments. The objective of this scholarship is to highlight research-based online professional development programs and best practice models that have been shown to enhance effective teaching and learning in a variety of environments.
Knowledge Management Innovations for Interdisciplinary Education: Organizational Applications
Sheryl Beverley Buckley (University of South Africa, South Africa) and Maria Jakovljevic (University of Zadar, Croatia)

Knowledge Management Innovations for Interdisciplinary Education: Organizational Applications is a detailed resource on knowledge management and innovations that has been written and edited to provide flexibility and in-depth knowledge management innovations, strategies, and practices. The combination of a primary emphasis on theory and practice with applications to interdisciplinary education, as well as organizational environments, makes this book unique among the burgeoning literature on knowledge management.

Information Systems Applications in the Arab Education Sector
Fayez Ahmad Albadri (ADMA-OPCO, UAE)

Information Systems Applications in the Arab Education Sector is a rich source of knowledge about educational reforms through the adoption of information systems applications and technologies in the Arab region. It provides a comprehensive account of current initiatives, approaches, issues, and challenges in the Arab education sector as it develops more viable and effective educational models with the help of technology and information systems, and reflects on the investigations and research findings of academics and the experiences of prominent practitioners.

Challenging ICT Applications in Architecture, Engineering, and Industrial Design Education
James Wang (National Taipei University of Technology, Taiwan)

Challenging ICT Applications in Architecture, Engineering, and Industrial Design Education posits imagination as the central feature of design. It questions the common assumption that ICTs are not only useful but also valuable for the creation of the visual designs that reside at the core of architecture, engineering design, and industrial design. For readers who believe this assumption is right, this book offers an alternative perspective.

Transcultural Blended Learning and Teaching in Postsecondary Education
Emmanuel Jean Francois (University of Wisconsin Oshkosh, USA)

Transcultural Blended Learning and Teaching in Postsecondary Education educates readers across nations and cultures and strengthens their understanding of theories, models, research, applications, best practices, and emerging issues related to blended learning and teaching through a holistic and transcultural perspective. This research volume serves as a valuable resource for faculty, administrators, and leaders in postsecondary institutions to plan, develop, implement, and evaluate blended learning programs and courses. It also provides researchers with the latest research in transcultural blended learning and teaching theories, findings, best practices, and emerging trends.

Student Usability in Educational Software and Games: Improving Experiences
Carina Gonzalez (University of La Laguna, Spain)

Student Usability in Educational Software and Games: Improving Experiences explores new models of interaction and human-computer interaction paradigms as applied to learning environments. It focuses on the usability design and evaluation of learning systems and educational game environments. An excellent resource for experts in these fields, this research volume will help professionals, educators, and researchers improve their understanding of student experiences using learning-gaming environments.

Cases on Cultural Implications and Considerations in Online Learning
Andrea Edmundson (eWorld Learning, USA)

Cases on Cultural Implications and Considerations in Online Learning illustrates ways in which to reach and engage learners across cultures by using online learning that accommodates cultural differences and preferences. This casebook helps online educators understand what cultural expectations their students have before they create online programs and tailor their instructional designs for multicultural and international learners.
Design and Deployment
Developments in Current Game-Based Learning Environments

Patrick Felicia
(Waterford Institute of Technology, Ireland)

Developments in Current Game-Based Learning Design and Deployment highlights the latest research from professionals and researchers working in the fields of educational games development, e-learning, multimedia, educational psychology, and information technology. It promotes an in-depth understanding of the multiple factors and challenges inherent to the design and integration of game-based Learning environments.

Ethical Technology Use, Policy, and Reactions in Educational Settings

Kadir Beycioglu (Dokuz Eylul University, Turkey)

Ethical Technology Use, Policy, and Reactions in Educational Settings provides state-of-the-art research on the impact of ethical computer use in academia and emphasizes the cyberphilosophical aspects of human-computer interactions. It provides significant analysis of the ethical use of educational Internet and computer applications.

Explorations of Language Teaching and Learning with Computational Assistance

Bin Zou (Xi’an Jiaotong-Liverpool University, China)

Explorations of Language Teaching and Learning with Computational Assistance provides cutting-edge research which evaluates, improves, and applies effective pedagogy in the fields of computer-assisted language learning (CALL) and foreign language learning. It expands on the principles, theories, design, and implementation of computer-assisted language learning programs.

Cases on E-Learning Management: Development and Implementation

Harrison Hao Yang (State University of New York at Oswego, USA) and Shuyan Wang (The University of Southern Mississippi, USA)

Cases on E-Learning Management: Development and Implementation meets this challenge by providing innovative case studies covering a range of topics such as teacher education, mobile and blended learning strategies, e-learning tutorial content, digital cognitive games, Science, Technology, Engineering, and Mathematics (STEM) education, and distance education. This casebook will enhance the work of educators, instructional designers, trainers, administrators, and researchers working in the areas of online learning and distance learning.

Cases on Formal and Informal E-Learning Environments: Opportunities and Practices

Harrison Hao Yang (State University of New York at Oswego, USA) and Shuyan Wang (The University of Southern Mississippi, USA)

Cases on Formal and Informal E-Learning Environments: Opportunities and Practices brings together cases outlining the practical aspect of formal, non-formal, and informal online learning. This book introduces conceptual aspects of these types of learning, knowledge-base, new learning paradigms, policy implications, evaluation and concerns, design, and development of online learning.

Cases on Online Learning Communities and Beyond: Investigations and Applications

Harrison Hao Yang (State University of New York at Oswego, USA) and Shuyan Wang (The University of Southern Mississippi, USA)

Cases on Online Learning Communities and Beyond: Investigations and Applications provides a variety of essential case studies which explore the benefits and pedagogical successes of distance learning, blended learning, collaborative learning environments, computer-supported group-based learning, and professional learning communities. This casebook is an essential resource for educators, instructional designers, trainers, administrators, and researchers working in the areas of online learning and distance learning.
Teacher Education Programs and Online Learning Tools: Innovations in Teacher Preparation

Richard Hartshorne (University of Central Florida, USA), Tina Heafner (University of North Carolina at Charlotte, USA), and Teresa Petty (University of North Carolina at Charlotte, USA)

Teacher Education Programs and Online Learning Tools: Innovations in Teacher Preparation presents information about current online practices and research in teacher education programs, and explores the opportunities, methods, and issues surrounding technologically innovative opportunities in teacher preparation. It presents empirical evidence of teacher candidate learning and assessment in the context of various online aspects of teacher licensure.

Design, Implementation, and Evaluation of Virtual Learning Environments

Michael Thomas (University of Central Lancashire, UK)

Design, Implementation, and Evaluation of Virtual Learning Environments highlights invaluable research covering the design, development, and evaluation of online learning environments. An essential resource for academics, professionals, corporate trainers and policy makers, this book examines the role of technology enhanced learning in this emerging area.

Outcome-Based Science, Technology, Engineering, and Mathematics Education: Innovative Practices

Khairiyah Mohd Yusof (Universiti Teknologi Malaysia, Malaysia), Nazihah Ahmad Azl (Universiti Teknologi Malaysia, Malaysia), Azilna Mohd Konsin (Universiti Teknologi Malaysia, Malaysia), Sharifah Kamilah Syed Yusof (Universiti Teknologi Malaysia, Malaysia), and Yudariah Mohammad Yusof (Universiti Teknologi Malaysia, Malaysia)

Outcome-Based Science, Technology, Engineering, and Mathematics Education: Innovative Practices provides insights into initiatives that enhance student learning and contribute to improving the quality of undergraduate STEM education. These findings and experiences will promote excellence in undergraduate STEM education and inspire new thinking about STEM curriculum design.

Cases on Technologies for Educational Leadership and Administration in Higher Education

Rocci Lupiccini (University of Ottawa, Canada)

Cases on Technologies for Educational Leadership and Administration in Higher Education brings together a collection of practical case studies exploring the application of new technologies, such as student management systems and enterprise resource planning, along with strategies that educational leaders can use to foster organizational change. Targeted toward college and university administrators and leaders, this book discusses successful strategies for managing universities in the tech-savvy 21st century.

Blended Learning Environments for Adults: Evaluations and Frameworks

Panagiotis Anastasiades (University of Crete, Greece)

Blended Learning Environments for Adults: Evaluations and Frameworks demonstrates the view that Information and Communication Technologies should not be considered as a neutral teaching medium, but instead be implemented under pedagogical conditions; aiming at the development of critical thinking through their creative integration into the social and cultural context. This comprehensive collection brings a group of scholars in order to build up a pedagogical approach and analytical implementation steps and directions for designing and implementing Blended Learning Collaborative Environments for adults.

Cloud Computing for Teaching and Learning: Strategies for Design and Implementation

Lee Chao (University of Houston Victoria, USA)

Cloud Computing for Teaching and Learning: Strategies for Design and Implementation provides the latest information about cloud development and cloud applications in teaching and learning. The book also include empirical research findings in these areas for professionals and researchers working in the field of e-learning who want to implement teaching and learning with cloud computing, as well as provide insights and support to executives concerned with cloud development and cloud applications in e-learning communities and environments.
Developments in Engineering Education Standards: Advanced Curriculum Innovations
Mohammad Rasul (CQUniversity, Australia)

Developments in Engineering Education Standards: Advanced Curriculum Innovations will address engineering education standards for the development of models for engineering education standards, and a widely acceptable approach to the curriculum design and development. The reference is composed of academics, professionals, researchers, and students working in the area of engineering education.

Learning with Mobile Technologies, Handheld Devices, and Smart Phones: Innovative Methods
Zhongyu (Joan) Lu (University of Huddersfield, UK)

Learning with Mobile Technologies, Handheld Devices, and Smart Phones: Innovative Methods presents a collection of innovative research which focuses on learning in the digital world with advanced mobile technologies. This reference will aim to bring researchers, professors, and lecturers and industrial training associations together to introduce a new era of teaching and learning societies.

New Media Communication Skills for Engineers and IT Professionals: Trans-National and Trans-Cultural Demands
Arun Patil (CQUniversity, Australia), et al.

New Media Communication Skills for Engineers and IT Professionals: Trans-National and Trans-Cultural Demands provides new and experienced practitioners, academics, employers, researchers and students, with international examples of best practices in new as well as traditional communication skills in increasingly trans-cultural, digitalized, hypertext environments. This book will be a valuable addition to the existing literature and resources in communication skills in both organizational and higher educational settings, giving readers comprehensive insights into the proficient use of a broad range of communication critical for effective professional participation in the globalized and digitized communication environments that characterize current engineering and IT workplaces.

Vocational Education Technologies and Advances in Adult Learning: New Concepts
Victor C.X. Wang (Florida Atlantic University, USA)

Vocational Education Technologies and Advances in Adult Learning: New Concepts provides a global look at educational technologies for adult learners with content drawing from theory, research, practice, individual experience, and insight by leading scholars, theorists, and practitioners worldwide. This volume provides educators, researchers, practitioners, and graduate students with insight into all areas affecting teaching, learning, research, and practice, sharing innovative pedagogies and inspirational insights into career and technical education (CTE), adult education, and technology.

Collaborative Learning 2.0: Open Educational Resources
Alexandra Lilavati Pereira Okada (Open University, UK), Teresa Connolly (Open University, UK), and Peter J. Scott (Open University, UK)

Collaborative Learning 2.0: Open Educational Resources offers a collection of the latest research, trends, future development, and case studies within the field. Without solid theoretical foundation and precise guidelines on how to use OER and Web 2.0 for collaborative learning, it would certainly be very difficult to obtain all the benefits that these “user-generated content, resources and tools” promise. The purpose of this handbook is to understand how OERs and Web 2.0 can be deployed successfully to enrich the collaborative learning experience and ensure a positive outcome in terms of user-generated knowledge and development of skills.

Educational Stages and Interactive Learning: From Kindergarten to Workplace Training
Jiyou Jia (Peking University, China)

Educational Stages and Interactive Learning: From Kindergarten to Workplace Training provides a record of current research and practical applications in interactive learning. This book reviews all aspects of interactive learning, investigates the history, status, and future trends of interactive learning, introduces emerging technologies for interactive learning, and analyzes interactive learning cases in various educational stages and learning situations. Readers interested in the technologies and pedagogical applications of interactive learning will find this book a comprehensive reference for the understanding of notions, theories, techniques, and methods related to the research and development of interactive learning.
E-Portfolios and Global Diffusion: Solutions for Collaborative Education
Darren Cambridge (George Mason University, USA)

E-Portfolios and Global Diffusion: Solutions for Collaborative Education addresses the emerging requirements, concerns and applications for e-portfolios. Through innovative chapters on real-world business uses, educational experiences, ideal design, this book fills an important gap in current literature concerning Web 2.0 applications. The theoretical debate surrounding e-portfolios is also presented along with international viewpoints, providing an important contribution to the global discussion of representing knowledge in the 21st century.

Robots in K-12 Education: A New Technology for Learning
Bradley S. Barker (University of Nebraska-Lincoln, USA), Gwen Nugent (University of Nebraska-Lincoln, USA), Neal Grandgenett (University of Nebraska-Omaha, USA), and Viacheslav I. Adamchuk (McGill University, USA)

Robots in K-12 Education: A New Technology for Learning explores the theory and practice of educational robotics in the K-12 formal and informal educational settings, providing empirical research supporting the use of robotics for STEMin learning. An essential resource for STEM educators, the book explores processes and strategies for developing and implementing robotics-based programs and documents the impact of educational robotics on youth learning by presenting research-based descriptions of robotics technologies and programs, as well as illustrative examples of learning activities, lessons, and assessments.

Cases on Inquiry through Instructional Technology in Math and Science
Lesia C. Lennex (Morehead State University, USA), et al.

Cases on Inquiry through Instructional Technology in Math and Science represents the work of many authors toward meaningful discourse of inquiry used in STEM teaching. This book presents insightful information to teachers and teacher education candidates about using inquiry in the real classroom, case studies from which research suggests appropriate uses, and tangible direction for creating their own inquiry based STEM activities. Sections take the reader logically through the meaning of inquiry in STEM teaching, how to use technology in modern classrooms, STEM projects which successfully integrate inquiry methodology, and inquiry problem solving within STEM classrooms with the aim of creating activities and models useful for real-world classrooms.

Computational Design Methods and Technologies: Applications in CAD, CAM and CAE Education
Ning Gu (University of Newcastle, Australia) and Xiangyu Wang (Curtin University, Australia)

Computational Design Methods and Technologies: Applications in CAD, CAM and CAE Education explores state-of-the-art developments in computational design methods and their impact on contemporary design education. Readers will find case studies, empirical research findings, pedagogical theories, and reflections. Researchers, educators, designers and developers will better understand how applying pedagogical research and reflection has influenced and will continue to transform the field in the future.

Developing Technology-Rich Teacher Education Programs: Key Issues
Drew Polly (University of North Carolina at Charlotte, USA), Clif Mims (University of Memphis, USA), and Kay A. Persichitte (University of Wyoming, USA)

Developing Technology-Rich Teacher Education Programs: Key Issues offers professional teacher educators a rare opportunity to harvest the thinking of pioneering colleagues spanning dozens of universities, and to benefit from the creativity, scholarship, hard work, and reflection that led them to the models they describe. Contributors from 32 universities from around the world came together as authors of case studies, methodologies, research, and modeling to produce the work that went into this reference work. The target audience for this book includes faculty, leaders, teacher educators, and administrators within higher institution and every level of education.

Transnational Distance Learning and Building New Markets for Universities
Robert Hogan (University of the South Pacific, Fiji)

Transnational Distance Learning and Building New Markets for Universities presents the opportunities, methods, issues, and risks involved in extending university education across national borders. It is important to understand cultural, financial, and legal issues, as well as management approaches, academic delivery options, and business considerations needed to create quality programs that are marketable and cost effective in reaching emerging international markets. The purpose of the book is to review how to reach emerging international markets, increase access to education, and do so at a profit.
Evaluating the Impact of Technology on Learning, Teaching, and Designing Curriculum: Emerging Trends

Eugenia M.W. Ng (Hong Kong Institute of Education, China), Nikos Karacapilidis (University of Patras, Greece), and Mahesh S. Raisinghani (Texas Woman’s University, USA)

Evaluating the Impact of Technology on Learning, Teaching, and Designing Curriculum: Emerging Trends provides a forum for researchers and practitioners to discuss the current and potential impact of online learning and training and to formulate methodologies for the creation of effective learning systems. This book investigates user experiences, design, evaluation, and management of Web-based training in the classroom and workplace, offering suggestions for researchers and decision-makers involved in the study of the important relationship between technology and learning.


David Parsons
Massey University - Auckland, New Zealand

Refining Current Practices in Mobile and Blended Learning: New Applications provides perspectives on new approaches to learning theory and practice in increasingly mobile and immersive environments. Situated at the intersection of theory and practice, this book provides foundational research on the development and implementation of mobile games, the delivery of mobile and blended learning, and philosophical underpinnings of this emerging discipline.

Technology and Its Impact on Educational Leadership: Innovation and Change

Chunxue V. Wang
(California State University, Long Beach, USA)

Technology and Its Impact on Educational Leadership: Innovation and Change covers not only K-12 and higher education leadership, but also the relationship between Web 2.0 technologies and educational leadership. Contributions within this book discuss chronic issues in the study of technology and its impact on educational leadership that have perplexed educational establishments. This work promotes learning and further research for professors, scholars, researchers, and graduate students involved in educational leadership and related fields.

Virtual Learning Environments: Concepts, Methodologies, Tools and Applications (3 Vols.)

Information Resources Management Association (USA)

Virtual Learning Environments: Concepts, Methodologies, Tools and Applications is a three volume compendium of the latest research, case studies, theories, and methodologies within the field of virtual learning environments. As networks get faster, cheaper, safer, and more reliable, their applications grow at a rate that makes it difficult for the typical practitioner to keep abreast. With a wide range of subjects, spanning from authors across the globe and with applications at different levels of education and higher learning, this reference guide serves academics and practitioners alike, indexed and categorized easily for study and application.

Advancing Education with Information Communication Technologies: Facilitating New Trends

Lawrence A. Tomei (Robert Morris University, USA)

Advancing Education with Information Communication Technologies: Facilitating New Trends offers an overview of how research in ICT provides a new framework for education. Focusing on the development and design of successful education programs, this book offers solutions, best practices, and emerging trends in integrating technology into the traditional and online classroom.

Cases on Educational Technology Integration in Urban Schools

Irene L. Chen (University of Houston-Downtown, USA) and Dallas McPheeters (Consultant, USA)

Cases on Educational Technology Integration in Urban Schools contains a spectrum of case studies aimed at understanding technology integration in urban schools. This book describes, analyzes, and synthesizes the impact of technology in an urban school with the objective of offering solutions for successful strategies and addressing organizational challenges and pitfalls. Cases on topics including student motivation, assistive technology, video games, cyber bullying, and technology ethics aim to inform current and future educators, as well as to fill existing gaps in existing technology and teacher education literature.
Disrupting Pedagogies in the Knowledge Society: Countering Conservative Norms with Creative Approaches

Julie Faulkner (RMIT University, Australia)

Disrupting Pedagogies in the Knowledge Society: Countering Conservative Norms with Creative Approaches examines a range of disruptive approaches, exploring how challenge, dissonance, and discomfort might be mobilized in educational contexts in order to shift taken-for-granted attitudes and beliefs held by both educators and learners. As digital technologies transform both social norms and political resistance, and the imperative to think critically and disruptively is now more urgent than ever.

Educational Recommender Systems and Technologies: Practices and Challenges

Olga C. Santos (Spanish National University for Distance Education (UNED), Spain) and Jesus G. Botocario (Spanish National University for Distance Education (UNED), Spain)

Educational Recommender Systems and Technologies: Practices and Challenges aims to provide a comprehensive review of state-of-the-art practices for ERS, as well as the challenges to achieve their actual deployment. Discussing such topics as the state-of-the-art of ERS, methodologies to develop ERS, and architectures to support the recommendation process, this book covers researchers interested in recommendation strategies for educational scenarios and in evaluating the impact of recommendations in learning, as well as academics and practitioners in the area of technology enhanced learning.

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Cases on Institutional Research Systems

Hansel Burley (Texas Tech University, USA)

Cases on Institutional Research Systems is a reference book for institutional research, appealing to novice and expert IR professionals and the administrators and policymakers that rely on their data. By presenting a variety of institutional perspectives, the book depicts the challenges and solutions to those in higher education administration, and state, federal, and even international accreditation.

Internet Accessible Remote Laboratories: Scalable E-Learning Tools for Engineering and Science Disciplines

Abul K.M. Azad (Northern Illinois University, USA), et al.

Internet Accessible Remote Laboratories: Scalable E-Learning Tools for Engineering and Science Disciplines collects current developments in the multidisciplinary creation of Internet accessible remote laboratories. This book offers perspectives on teaching with online laboratories, pedagogical design, system architectures for remote laboratories, future trends, and policy issues in the use of remote laboratories. It is a useful resource for graduate and undergraduate students in electrical and computer engineering and computer science programs, as well as researchers who are interested in learning more about the current status of the field as well as various approaches to remote laboratory design.

Constructing Self-Discovery Learning Spaces Online: Scaffolding and Decision Making Technologies

Shalin Hai-Jew (Kansas State University, USA)

Constructing Self-Discovery Learning Spaces Online: Scaffolding and Decision Making Technologies raises awareness of the strategies supporting self-driven learner efficacy on a number of site types. This book reflects on existing literature about self-discovery learning and what learners need in terms of scaffolding to help them make the right decisions, assess their own level of learning, vet information strategically, collaborate with other learners, and build their own skill sets.

Computer-Mediated Communication: Issues and Approaches in Education

Sigrid Kelsey (Louisiana State University, USA) and Kirk St.Amant (East Carolina University, USA)

Computer Mediated Communication: Issues and Approaches in Education examines online interactions from different national, cultural, linguistic, legal, and economic perspectives, exploring how the increasingly international and intercultural Internet affects the ways users present ideas, exchange information, and conduct discussions online. Educators, researchers, and practitioners will discover ways to effectively use Web-based technologies, transcending barriers to participate and collaborate in international projects that reflect the scope and scale of today’s global interactions.

Disabled Students in Education: Technology, Transition, and Inclusivity

David Moore (Leeds Metropolitan University, UK), Andrea Gorra (Leeds Metropolitan University, UK), Mike Adams (Essex Coalition of Disabled People, UK), John Reaney (Leeds Metropolitan University, UK), and Helen Smith (Leeds Metropolitan University, UK)

Disabled Students in Education: Technology, Transition, and Inclusivity reports on 15 research projects aimed at improving the educational prospects of disabled people. Through its discussion of three main themes—technology, transition and inclusivity—this book aims to be of interest to disabled students, their parents and teachers, and the people who run and set policies for their educational providers.


Sharmila Pixy Ferris (William Paterson University, USA)

Teaching, Learning and the Net Generation: Concepts and Tools for Reaching Digital Learners provides pedagogical resources for understanding digital learners, and effectively teaching and learning with today’s generation of digital natives. This book creates a much-needed resource that moves beyond traditional disciplinary and geographical boundaries, bridges theories and practice, and addresses emerging issues in technology and pedagogy.
Felicia Zhang (University of Canberra, Australia)

Computer-Enhanced and Mobile-Assisted Language Learning: Emerging Issues and Trends by Felicia Zhang compiles the latest research into computer-enhanced language learning as well as the integration of mobile devices into new language acquisition. Though new information is constantly coming out as technologies continue to evolve, this important new follow-up publication will be distributed worldwide among academic and professional institutions and will be instrumental in providing researchers, scholars, students, and professionals' access to the latest knowledge related to research on Computer-Enhanced and mobile-assisted language learning.

Meta-Communication for Reflective Online Conversations: Models for Distance Education
Ugur Demiray (Anadolu University, Turkey), Gulsun Kurubacak (Anadolu University, Turkey), and T. Volkan Yuzer (Anadolu University, Turkey)

Meta-Communication for Reflective Online Conversations: Models for Distance Educations discusses the potential of meta-communication models for building and managing reflective online conversations among distance learners. This book unites models for meta-communication, distance education, and reflective online conversations and can serve as a course supplement for studies in distance education, online education, reflective online education, and meta-communication.

Professional Education Using E-Simulations: Benefits of Blended Learning Design
Dale Holt (Deakin University, Australia), Stephen Segrave (Deakin University, Australia), and Jacob L. Cybulski (Deakin University, Australia)

Professional Education Using E-Simulations: Benefits of Blended Learning Design contains a broad range of theoretical perspectives on, and practical illustrations of, the field of e-simulations for educating the professions in blended learning environments. Readers will see authors articulate various views on the nature of professions and professionalism, the nature and roles that various types of e-simulations play in contributing to developing an array of professional capabilities, and various viewpoints on how e-simulations as an integral component of blended learning environments can be conceived, enacted, evaluated, and researched.

Student Reactions to Learning with Technologies: Perceptions and Outcomes
Kathryn Moyle (Charles Darwin University, Australia) and Guus Wijngaards (Inholland University, The Netherlands)

Student Reactions to Learning with Technologies: Perceptions and Outcomes brings together recent research findings and research views about the views and expectations of students when including technologies in their studies. The chapters in this book suggest that the use of technologies in teaching not only makes learning more interesting but also offers possibilities for variations in the learning processes. While this book does not offer irrevocable opinions and definitive views or insights, it provides a useful lens for viewing the world of students and providing insights into the possibilities for accessing and conducting similar research.

Encyclopedia of E-Leadership, Counseling and Training (3 Vols.)
Victor C.X. Wang (Florida Atlantic University, USA)

Encyclopedia of E-Leadership, Counseling and Training offers an in-depth description of key terms and concepts related to different themes, issues, and trends in educational leadership, counseling, and technology integration in modern universities and organizations worldwide. This three-volume work serves as an exhaustive compendium of expertise, research, skills, and experiences. Authors with a background in education, leadership, counseling, management, human resource development, or adult education have helped to encourage the education and training of potential leaders with this scholarly work.

Higher Education Institutions and Learning Management Systems: Adoption and Standardization
Rosalina Babo (ISCAP-IPP, Portugal) and Ana Azvedo (ISCAP-IPP, Portugal)

Higher Education Institutions and Learning Management Systems: Adoption and Standardization provides insights concerning the use of learning management systems in higher education institutions and aims to increase understanding of LMS adoption and usage, providing relevant academic work, empirical research findings and an overview of LMS usage in higher education institutions all over the world.
Informed Design of Educational Technologies in Higher Education: Enhanced Learning and Teaching
Anders D. Olofsson (Umeå University, Sweden) and J. Ola Lindberg (Mid Sweden University, Sweden)

Informed Design of Educational Technologies in Higher Education: Enhanced Learning and Teaching presents recent and important theoretical and practical advances in educational technology design in higher education, examining their possibilities for enhancing teaching and learning. This volume includes discussions of technologies and applications grounded in legitimate learning theories and from an ethical perspective that emphasizes mutual understanding.

Intelligent and Adaptive Learning Systems: Technology Enhanced Support for Learners and Teachers
Sabine Graf (Athabasca University, Canada), et al.

Intelligent and Adaptive Learning Systems: Technology Enhanced Support for Learners and Teachers focuses on how intelligent support and adaptive features can be integrated in currently used learning systems and discusses how intelligent and adaptive learning systems can be improved in order to provide a better learning environment for learners. This book provides academics as well as professional practitioners innovative research work for enhancing learning environments with adaptively and intelligent support in different contexts and settings, ranging from provision of courses and assessment in formal desktop-based learning systems to learning environments that support collaborative, informal, ubiquitous learning.

Teaching Mathematics Online: Emergent Technologies and Methodologies
Angel A. Juan (Open University of Catalonia, Spain), Maria A. Huertas (Open University of Catalonia, Spain), Sven Trenholm (Loughborough University, UK), Cristina Steegmann (Open University of Catalonia, Spain)

Teaching Mathematics Online: Emergent Technologies and Methodologies shares theoretical and applied pedagogical models and systems used in math e-learning including the use of computer supported collaborative learning, which is common to most e-learning practices. The book also forecasts emerging technologies and tendencies regarding mathematical software, learning management systems, and mathematics education online and presents up-to-date research work on how mathematics education is changing in a global and Web-based world.

Technologies for Enhancing Pedagogy, Engagement and Empowerment in Education: Creating Learning-Friendly Environments
Thao Lê (University of Tasmania, Australia) and Quynh Lê (University of Tasmania, Australia)

Technologies for Enhancing Pedagogy, Engagement and Empowerment in Education: Creating Learning-Friendly Environments explores how technology-based learning can enhance student engagement, performance, and empowerment. This book provides researchers, educators and practitioners with insights from educational programs, classroom teaching, and theory-into-practice research; places educational technologies appropriately in their social and cultural contexts; and reflects upon challenges and problems in evaluating and implementing changes in the field. It shows how computer-enhanced education can improve teaching and learning without confusing the increase of computer facilities with the quality of education.

Sustainable Language Support Practices in Science Education: Technologies and Solutions
Felicia Zhang (University of Canberra, Australia), et al.

Sustainable Language Support Practices in Science Education: Technologies and Solutions presents cases on the results of a study done in Australia on first-year university students and the impact of new techniques of language acquisition on science education. The project covered biology, chemistry and physics. Nearly 3,400 students were involved in the project, drawn from the University of Canberra, the University of Technology, Sydney, the University of Sydney, the University of Tasmania and the University of Newcastle in Australia. This book serves as the latest research available on meta-cognitive assessment and language needs for a diverse student body; it is a vital resource for academics and practitioners designing and implementing science education around the world today.

Technology and Young Children: Bridging the Communication-Generation Gap
Sally Blake (Flagler College, USA), Denise Winsor (University of Memphis, USA), and Lee Allen (University of Memphis, USA)

Technology and Young Children: Bridging the Communication-Generation Gap presents the view that beliefs, history, research, and policy are essential to changing the educational system with technology. The content should help teachers reflect on what is happening as the center of learning power moves outside the classroom. The suggestions for use of technology are designed to help educators ease into the use of technology rather than leap off the cliff of innovation, developing confidence and competence in their teaching.
Communication Technology for Students in Special Education and Gifted Programs

Joan E. Atkin (Park University, USA), Joy Pedego Fairley (University of Missouri - Kansas City, USA), Judith K. Carlson (Rockhurst University, USA)

Communication Technology for Students in Special Education and Gifted Programs collects ideas about new communication technologies and innovative ways of using them to enhance education for students with exceptionalities. These case studies are based on the experiences and expertise of the teachers, researchers, and other professionals who have used them. By learning about the experiences of professionals with diverse specialties, others will gain information and ideas for how to better serve individuals with special needs across the educational spectrum.

Educational Technology, Teacher Knowledge, and Classroom Impact: A Research Handbook on Frameworks and Approaches

Robert N. Ronau (University of Louisville, USA), Christopher R. Rakes (University of Louisville, USA), and Margaret L. Niess (Oregon State University, USA)

Educational Technology, Teacher Knowledge, and Classroom Impact: A Research Handbook on Frameworks and Approaches provides a framework for evaluating and conducting educational technology research, sharing research on educational technology in education content areas, and proposing structures to guide, link, and build new structures with future research. This book provides essential support for compiling the resulting literature and envisioning future research directions in this area.

Physical and Virtual Learning Spaces in Higher Education: Concepts for the Modern Learning Environment

Mike Keppell (Charles Sturt University, Australia), Kay Souler, (LaTrobe University, Australia), and Matthew Riddle (LaTrobe University, Australia)

Physical and Virtual Learning Spaces in Higher Education: Concepts for the Modern Learning Environment documents real-world experiences of innovators in higher education who have redesigned spaces for learning and teaching. The redefined spaces encompass a broader range of physical, virtual, formal, informal, blended, flexible, and time sensitive factors.


Melody A. Bowdon (University of Central Florida, USA) and Russell G. Carpenter (Eastern Kentucky University, USA)

Higher Education, Emerging Technologies, and Community Partnerships: Concepts, Models and Practices is a comprehensive collection of research with an emphasis on emerging technologies, community value, and corporate partnerships. The contributions in this collection provide strategies to implement partnerships. Outlining various concepts from an educational and technological standpoint, this reference book serves as a resource for academic administrators, instructors and community practitioners.

Pedagogical and Andragogical Teaching and Learning with Information Communication Technologies

Victor C.X. Wang (California State University, Long Beach, USA), et al.

Pedagogical and Andragogical Teaching and Learning with Information Communication Technologies displays that teachers can further their art by considering both pedagogy and andragogy in light of each other, specifically in the modern classroom. Information Communication Technologies are ubiquitous in today’s learning institutions and this book provides an important platform for the furthering of the modern instructional paradigm. To truly advance into future possibilities opened by technology, teachers are required to allow for learning without the constraints of traditional attitudes toward time, space, age and experience. This book shows how to blend and learn from the revolution taking place in educational institutions across the world.

Open Source Mobile Learning: Mobile Linux Applications

Lee Chao (University of Houston-Victoria, USA)

Open Source Mobile Learning: Mobile Linux Applications is designed to provide the information of open source products used in each phase of the mobile learning. Comparison of popular open source products and their usability in a mobile learning system is also given in selected chapters. Designing strategies and implementation methods of mobile learning systems; the book presents some possible solutions to the challenges encountered in the mobile learning system construction, management, and course material development.
Software Industry-Oriented Education Practices and Curriculum Development: Experiences and Lessons

Matthew Hussey (Dublin Institute of Technology, Ireland), Bing Wu (Dublin Institute of Technology, Ireland), and Xiaofei Xu (Harbin Institute of Technology, China)

Software Industry-Oriented Education Practices and Curriculum Development: Experiences and Lessons presents relevant theoretical frameworks and the latest empirical research findings in this area for professionals in academic institutions and industry who want to improve their understanding of this key platform. This book will serve as a reference for educators and program designers across the world involved in industry-oriented education and production of graduates for its globalization.

Assistive and Augmentive Communication for the Disabled: Intelligent Technologies for Communication, Learning and Teaching

Lau Bee Theng (Swinburne University of Technology, Malaysia)

Assistive and Augmentive Communication for the Disabled: Intelligent Technologies for Communication, Learning and Teaching provides benefits to the professionals and researchers working in various disciplines in the field, such as special education, healthcare, computational intelligence and information technology. Moreover, this book provides insights and support to individuals who are concerned with the development of children and adults with disabilities. It covers recently completed studies as well as ongoing researches to provide a cutting-edge window into this area of promising, new applications.

Distance Education Environments and Emerging Software Systems: New Technologies

Qun Jin (Waseda University, Japan)

Distance Education Environments and Emerging Software Systems: New Technologies focuses on the discussions of computational methods, algorithms implemented prototype systems, and applications of open and distance learning. This reference is a primary forum for researchers and practitioners to disseminate practical solutions to the automation of open and distance learning.

Student Satisfaction and Learning Outcomes in E-Learning: An Introduction to Empirical Research

Sean B. Eom (Southeast Missouri State University, USA), J.B. Arbaugh (University of Wisconsin Oshkosh, USA)

Student Satisfaction and Learning Outcomes in E-Learning: An Introduction to Empirical Research will help introduce instructors, researchers, practicing managers, and graduate students in the e-learning community do research on effective e-learning practices. This book provides insights from previous research on effective instructional practices for new instructors entering the e-learning realm. Even experienced educators will examine and conduct their work more thoroughly as they engage with research on online teaching and learning—and begin to contribute to it themselves.

Marketing Online Education Programs: Frameworks for Promotion and Communication

Ugur Demiray (Anadolu University, Turkey) et al.

Marketing Online Education Programs: Frameworks for Promotion and Communication provides relevant theoretical frameworks and the latest empirical research findings in this field. Teachers are adopting new technologies in their instructional strategies, be it for course design, development or delivery. The field of distance and online education is experiencing continuing growth. Marketing for distance and online learning environments faces a number of challenges in the form of delivering what these environments are promising, how to find the right information, regular updating of the courses and not to forget the effective user interaction with the course developers and peers. This book provides an integrated marketing communications perspective to communication and promotion issues of online programs.
Multi-User Virtual Environments for the Classroom: Practical Approaches to Teaching in Virtual Worlds
Giovanni Vincenti (Gruppo Vincenti, Italy) and James Braman (Towson University, USA)

Multi-User Virtual Environments for the Classroom: Practical Approaches to Teaching in Virtual Worlds highlights the work of educators daring enough to teach in these digital frontiers. Instructors will find cutting-edge teaching ideas in the theoretical discussions, case studies, and experiments presented in this book. These insights are applied to variety of subject areas and pedagogical contexts, including learning foreign languages in virtual environments, examples which encourage educators to design and develop new worlds of learning inside and outside the university.

Work-Integrated Learning in Engineering, Built Environment and Technology: Diversity of Practice in Practice
Patrick Keleher (Central Queensland University, Australia), et al.

Work-Integrated Learning in Engineering, Built Environment and Technology: Diversity of Practice in Practice provides a snapshot of a global perspective of the diversity of practices adopted to successfully develop, implement, deliver and re-ignite undergraduate and postgraduate Work Integrated Learning (WIL) focused programs in engineering, the built environment and information technology. The authors who contributed to this text provide a diverse perspective on the manner in which the WIL philosophy can be adopted and adapted and emphasize a learning environment that creates and supports meaningful learning through a contextual lens.

E-Infrastructures and Technologies for Lifelong Learning: Next Generation Environments
George Magoulas (Birkbeck College, UK)

E-Infrastructures and Technologies for Lifelong Learning: Next Generation Environments provides a comprehensive review of state-of-the-art technologies for e-learning and lifelong learning, examining theoretical approaches, models, architectures, systems and applications. It addresses critical issues in the field, providing readers with insight on the various stages of the technological life cycle, as well as applications in real world settings. As a one-stop reference, this book provides a holistic view of the various issues in the area of advanced technologies for lifelong learning ranging from organizational issues to lifelong learning delivery issues.

Handbook of Research on Improving Learning and Motivation through Educational Games: Multidisciplinary Approaches (2 Vols.)
Patrick Felicia (Waterford Institute of Technology, Ireland)

The Handbook of Research on Improving Learning and Motivation through Educational Games: Multidisciplinary Approaches provides relevant theoretical frameworks and the latest empirical research findings on game-based learning. It is written for professionals, such as students, teachers, developers or managers, who want to improve their understanding of the important roles and applications of educational games in terms of teaching strategies, instructional design, educational psychology and game design.

Blended Learning across Disciplines: Models for Implementation
Andrew Kitchenham (University of Northern British Columbia, Canada)

Blended Learning across Disciplines: Models for Implementation presents a global perspective on blended learning and augments that perspective with examples and applications from leading scholars around the world. It highlights examples from the school system, from undergraduate classes, and from graduate classes and also discusses androgogical principles as they apply to blended learning situations.
Cases on Globalized and Culturally Appropriate E-Learning: Challenges and Solutions

Andrea Edmundson (eWorldLearning Inc., USA)

Cases on Globalized and Culturally Appropriate E-Learning: Challenges and Solutions offers a multitude of cases illustrating the different challenges faced when offering e-learning to learners of other cultures and most importantly, how they were resolved. This cutting-edge publication shares contemporary knowledge on how to adapt or develop e-learning that promotes equitable learning outcomes for targeted learners by addressing interdependent disciplines. It is a must-have reference source for organizations with an outsourced workforce, global trainers, educators, and faculty, instructional designers and e-learning developers, translation and localization experts, international development agencies, open courseware advocates, and promoters of reusable learning objects.

Models for Interdisciplinary Mobile Learning: Delivering Information to Students

Andrew Kitchenham
(University of Northern British Columbia, Canada)

Models for Interdisciplinary Mobile Learning: Delivering Information to Students investigates m-learning applications in developed and developing countries as individuals and groups embrace mobile systems. This innovative work expands on existing perspectives, applications, theories, and philosophies while also exploring how blended learning practices have developed into mobile learning opportunities.

Combining E-Learning and M-Learning: New Applications of Blended Educational Resources

David Parsons (Massey University, Australia)

Combining E-Learning and M-Learning: New Applications of Blended Educational Resources reviews new systems and frameworks for the application of mobile technologies in educational contexts. Contributions provide insight on ethical and cross-cultural considerations of mobile learning, as well as different teaching and learning styles.

Teaching and Learning in 3D Immersive Worlds: Pedagogical Models and Constructivist Approaches

Amelia Cheney (Appalachian State University, USA) and Robert L. Sanders (Appalachian State University, USA)

Teaching and Learning in 3D Immersive Worlds: Pedagogical Models and Constructivist Approaches examines successful implementation of social constructivist instructional design tenets in 3D virtual immersive environments. Authors share best practices, challenges, and advice to those working to utilize virtual environments in higher education and other venues. Readers will gain both a research background in the use of virtual worlds for teaching and learning and practical advice as they begin to design and implement these environments.

Academic Podcasting and Mobile Assisted Language Learning: Applications and Outcomes

Betty Rose Facer (Old Dominion University, USA) and M’hammed Abdous (Old Dominion University, USA)

Academic Podcasting and Mobile Assisted Language Learning: Applications and Outcomes shares innovative and pedagogically effective ways to improve foreign language education by identifying the instructional uses and benefits of academic podcasting technology and MALL in foreign language acquisition. These include instructional uses, students’ perceived learning gains, how instructors can use/have used the technology (successes and challenges), study abroad experiences with the technology, pedagogical impact, and economic perspectives on its use.
Cases on Building Quality Distance Delivery Programs: Strategies and Experiences

Stephanie Huffman (University of Central Arkansas, USA), Shelly Albritten (University of Central Arkansas, USA), Barbara Williams (University of Central Arkansas, USA), and Wendy Rickman (University of Central Arkansas, USA)

Cases on Building Quality Distance Delivery Programs: Strategies and Experiences targets pressing needs in distance education by connecting theory and practice, addressing emerging leadership issues, and identifying best practices in teaching and learning. This book unites cases that not only can be used for teaching, but also as a resource for building quality distance delivery programs.

Investigations of E-Learning Patterns: Context Factors, Problems and Solutions

Christian Kohls (Knowledge Media Research Center, Germany) and Joachim Wedekind (Knowledge Media Research Center, Germany)

Investigations of E-Learning Patterns: Context Factors, Problems and Solutions poses the question: Will e-learning patterns be equally successful as their pendant in software development or is the remake doomed to failure? This comprehensive publication addresses both e-learning practitioners and researchers, using an accessible language to communicate sophisticated knowledge and important research methods and results. It is a valuable addition to any research collection.

Dynamic Advancements in Teaching and Learning Based Technologies: New Concepts

Eugenia M.W. Ng (Hong Kong Institute of Education, China), Nikos Karacapilidis (University of Patras, Greece), and Mahesh S. Raisinghani (Texas Woman's University, USA)

Dynamic Advancements in Teaching and Learning Based Technologies: New Concepts explores the technical, social, cultural, organizational, human, cognitive, and commercial impact of technology. This exciting new publication explores the impact of Web-based technology on the design, implementation and evaluation of the learning and teaching process, as well as the development of new activities, relationships, skills, and competencies for the various actors implied in such processes. It expands on the overall body of knowledge relating to multi-dimensional aspects of Web-based technologies in up to date educational contexts.

Online Courses and ICT in Education: Emerging Practices and Applications

Lawrence A. Tomei (Robert Morris University, USA)

Online Courses and ICT in Education: Emerging Practices and Applications offers a critical review of current research in technology-supported education, focusing on the development and design of successful education programs, student success factors, and the creation and use of online courses. This work offers solutions, best practices and emerging trends in integrating technology into the traditional and online classroom.

Technology Integration in Higher Education: Social and Organizational Aspects

Daniel W. Surry (University of South Alabama, USA), James R. Stefrak (University of South Alabama, USA), and Robert M. Gray, Jr. (University of South Alabama, USA)

Technology Integration in Higher Education: Social and Organizational Aspects provides a sound overview of the ways that technology influences the human and organizational aspects of higher education. Aimed at researchers and professionals working in higher education, this text explores how technology is changing the relationship between faculty and students, higher education experience, and the role of colleges and universities within society as a whole.

Transformative Online Education and Liberation: Models for Social Equality

Gulsun Kurubacak (Anadolu University, Turkey) and T. Volkan Yuzer (Anadolu University, Turkey)

The Handbook of Research on Transformative Online Education and Liberation: Models for Social Equality discusses the potential for transformative models to liberate online education. With a focus on the societal, social, political, economic, and philosophical perspectives of transformative models, this handbook examines how digital learning communities foster critical reflections and prospective change, particularly within virtual groups. This scrutiny of transformative models serves to educate faculty, administrators, professionals, researchers, community activists, and parents on the injustices that challenge digital societies.
Adaptation, Resistance and Access to Instructional Technologies: Assessing Future Trends in Education
Steven D’Agostino (Fordham University, USA)

Adaptation, Resistance, and Access to Instructional Technologies: Assessing Future Trends in Education captures the current trends in technology integration from PreK-12 to higher education. This relevant research publication focuses on the various constituent groups, namely students, teachers, and communities, in education and the effects of educational technology on learning and empowerment. It is a must-read book for all K-12 school district administrators, principals, technology coordinators, and K-12 teachers, as well as undergraduate and graduate school of education, teacher preparation programs, and clinical field supervisors of teachers.

Fostering Self-Regulated Learning through ICT
Giuliana Dettori (Italian National Research Council, Italy) and Donatella Persico (Italian National Research Council, Italy)

Fostering Self-Regulated Learning through ICTs presents the relationship between SRL and ICTs from several standpoints, addressing both theoretical and applicative issues, providing examples from a range of disciplinary fields and educational settings. This book includes 24 chapters by a total of 57 authors from 28 different institutions in 13 countries.

Virtual Immersive and 3D Learning Spaces: Emerging Technologies and Trends
Shalin Hai-Jew (Kansas State University, USA)

Virtual Immersive and 3D Learning Spaces: Emerging Technologies helps push the conceptual and applied boundaries of virtual immersive learning. Virtual immersive spaces bring with them plenty of promise, of sensory information-rich learning experiences that will enable a much wider range of experiential learning and training—delivered to computer desktops, augmented reality spaces, digital installations, and mobile projective devices. This work explains how these spaces may be exploited for effective learning in terms of the technologies, pedagogical strategies, and directions.

Developing and Utilizing E-Learning Applications
Fotis Lazarinis (University of Teesside, UK), Steve Green (University of Teesside, UK), and Elaine Pearson (University of Teesside, UK)

Developing and Utilizing E-Learning Applications provides a complete investigation of new methods, technologies, and practices critical to modern educational environments. Exploring topics such as virtual worlds, learning methods, and ICTs as well as interoperability in e-learning environments, this reference provides essential knowledge for educators, practitioners, and students alike.

Encyclopedia of Information Communication Technologies and Adult Education Integration (3 Vols.)
Victor C.X. Wang (California State University at Long Beach, USA)

The Encyclopedia of Information Communication Technologies and Adult Education Integration provides comprehensive coverage and definitions of the most important issues, concepts, trends and theories in adult education, adult ESL (English as a Second Language) and information communication technologies. Contributions to this important publication were made by scholars throughout the world with notable research publications and expertise. This comprehensive Encyclopedia features research authored by leading experts offering an in-depth description of key terms and theories/concepts related to different areas, issues and trends in adult education worldwide.

Free and Open Source Software for E-Learning: Issues, Successes and Challenges
Betul Özkan Czerkawski (University of Arizona South, USA)

Free and Open Source Software for E-Learning: Issues, Successes and Challenges reviews open and free software used in e-learning, examines the pedagogy behind FOSS and how it is applied to e-learning, and discusses the best practices for FOSS through real world examples, providing guidelines for e-learning designers and instructors who use FOSS. This engaging compilation is ideal for those using FOSS programs to design, develop, and manage educational and training programs. It is also well suited for adoption in instructional technology related courses in advanced degree programs.
Handbook of Research on E-Learning Standards and Interoperability: Frameworks and Issues

Fotis Lazarinis (University of Teesside, UK), Steve Green (University of Teesside, UK), and Elaine Pearson (University of Teesside, UK)

The Handbook of Research on E-Learning Standards and Interoperability: Frameworks and Issues promotes the discussion of specific solutions for increasing the interoperability of standalone and Web-based educational tools. This book investigates issues arising from the deployment of learning standards and provides relevant theoretical frameworks and leading empirical research findings. Chapters presented in this work are suitable for practitioners and researchers in the area of educational technology with a focus on content reusability and interoperability.

Mobile Technologies and Handheld Devices for Ubiquitous Learning: Research and Pedagogy

Wan Ng (LaTrobe University, Australia)

Mobile Technologies and Handheld Devices for Ubiquitous Learning: Research and Pedagogy provides readers with a rich collection of research-informed ideas for integrating mobile technologies into learning and teaching. Each chapter looks critically at the issues, related benefits and limitations of learning ubiquitously within the context of the research reported. New and emerging technologies present challenges for education causing educators to have to rethink pedagogy, boundaries and curriculum if they continue to embrace mobile technologies in their teaching.

Technology Enhanced Learning for People with Disabilities: Approaches and Applications

Patricia Ordóñez de Pablos (University of Oviedo, Spain), et al.

Technology Enhanced Learning for People with Disabilities: Approaches and Applications brings together academics, policy-makers and practitioners, with the goal of delivering a reference edition for all those interested in approaches and applications of technology enhanced learning for people with disabilities. This book aims to be the leading source of information for all those interested in understanding how IT can promote the scientific discussion of the needs of people with disabilities and how IT enhanced activities and programs can help disabled people in their daily activities. Furthermore, this book demonstrates the capacity of information technology and management for the mutual understanding, prosperity and well being of people.

Telementoring in the K-12 Classroom: Online Communication Technologies for Learning

Deborah A. Sciglione (Duquesne University, USA)

Telementoring in the K-12 Classroom: Online Communication Technologies for Learning provides the latest research and the best practices in the field of telementoring. Theoretical and pragmatic viewpoints on telementoring provide guidance to professionals wanting to inform their practice. A solid base of telementoring information and an expansive vision of this practice combine to promote the understanding and successful implementation of telementoring.
Assessing and Evaluating Adult Learning in Career and Technical Education
Victor C.X. Wang
(California State University at Long Beach, USA)

Assessing and Evaluating Adult Learning in Career and Technical Education advances a framework, a process and meaningful approaches for assessing and evaluating adult learning in career and technical education (CTE). This book addresses the key elements of the process of assessment and evaluation: self-evaluation, transformative learning, history of andragogy, teaching philosophies, and much more. At each step in this process, the reader is taken through multiple and meaningful approaches of assessing and evaluating adult learning in the field of career and technical education.

Definitive Readings in the History, Philosophy, Theories and Practice of Career and Technical Education
Victor C.X. Wang
(California State University at Long Beach, USA)

Definitive Readings in the History, Philosophy, Theories and Practice of Career and Technical Education brings together definitive writings on CTE by leading figures and by contemporary thinkers in the history, philosophy, practice and theories of the field. Filling a much needed void in existing literature, this book equips scholars and practitioners with knowledge, skills, and attitudes to succeed in the field of CTE.

Intelligent Tutoring Systems in E-Learning Environments: Design, Implementation and Evaluation
Slavomir Stankov (University of Split, Croatia), Viado Glavinic (University of Zagreb, Croatia), and Marko Rosic (University of Split, Croatia)

Intelligent Tutoring Systems in E-Learning Environments: Design, Implementation, and Evaluation presents the e-learning community with innovative research concerning the background of intelligent tutoring systems in the new educational era. This scholarly reference provides researchers and e-system developers with a survey of the latest trends and practical experiences in student modeling.

Web 2.0-Based E-Learning: Applying Social Informatics for Tertiary Teaching
Mark J.W. Lee (Charles Sturt University, Australia) and Catherine McLoughlin (Australian Catholic University, Australia)

Web 2.0-Based E-Learning: Applying Social Informatics for Tertiary Teaching provides a useful and valuable reference to the latest advances in the area of educational technology and e-learning. This innovative book offers an excellent resource for any practitioner, researcher, or academician with an interest in the use of the Web for providing meaningful learning experiences.

Critical Design and Effective Tools for E-Learning in Higher Education: Theory into Practice
Roisin Donnelly (Dublin Institute of Technology, Ireland), Jen Harvey (Dublin Institute of Technology, Ireland), and K.C. O’Rourke (Dublin Institute of Technology, Ireland)

Critical Design and Effective Tools for E-Learning in Higher Education: Theory into Practice is a collection of stories that provide those who work in higher education a source of both information and inspiration. The stories are told by some 40 professionals from across the English-speaking world, detailing their theoretical and practical perspectives on the impact technology has had and will have on the learning experiences of higher education graduates.
and what the prospects are for the future. How research in this area has progressed, digital engineering education has developed, where it education and digital learning will offer a survey of how probe into the most relevant issues in engineering edu-

Advanced learning systems in delivering instructions in

Web-based Engineering Education: Critical Design and Effective Tools

Digital engineering education has developed, where it education and digital learning will offer a survey of how probe into the most relevant issues in engineering edu-

Literary Education and Digital Learning: Methods and Technologies for Humanities Studies

Willie van Peer (University of Rio de Janeiro, Brazil), Sonia Zygier (University of Rio de Janeiro, Brazil), and Vander Viana (University of Munich, Germany)

Literary Education and Digital Learning: Methods and Technologies for Humanities Studies provides insight into the most relevant issues in literary education and digital learning. This unique reference fills a gap in literature teaching, covering literary aspects both from educational and research perspectives.

Web-Based Engineering Education: Critical Design and Effective Tools

Donna L. Russell (University of Missouri, USA) and A.K. Haghi (University of Ottawa, Canada)

Web-Based Engineering Education: Critical Design and Effective Tools evaluates the usefulness of advanced learning systems in delivering instructions in a virtual academic environment for different engineering sectors. This reference source aims at providing a deep probe into the most relevant issues in engineering education and digital learning and will offer a survey of how digital engineering education has developed, where it stands now, how research in this area has progressed, and what the prospects are for the future.

Technology Leadership in Teacher Education: Integrated Solutions and Experiences

Junko Yamamoto (Slippery Rock University, USA), Chris Penny (West Chester University, USA), Joanne Leight (Slippery Rock University, USA), and Sally Winterton (West Chester University, USA)

Technology Leadership in Teacher Education: Integrated Solutions and Experiences presents research on the practical applications of technology in learning environments, assisting both educators and researchers in the quest to optimize and revolutionize educational practices. Experience-based scenarios and solutions allow readers to investigate and benefit from best practices in the design and development of online environments for both students and professionals.

Transformative Learning and Online Education: Aesthetics, Dimensions and Concepts

T. Volkan Yuzer (Anadolu University, Turkey) and Gulsun Kurubacak (Anadolu University, Turkey)

Transformative Learning and Online Education: Aesthetics, Dimensions and Concepts provides an understanding and comprehension of aesthetics and its importance in transformative online learning. Using frameworks and cases, this reference attempts to construct a more complete understanding of how the art of learning is considered and knowledge is transferred from the cyber to the real world.

Cases on Digital Technologies in Higher Education: Issues and Challenges

Rocci Luppicini (University of Ottawa, Canada) and A.K. Haghi (University of Ottawa, Canada)

Cases on Digital Technologies in Higher Education: Issues and Challenges provides a collection of practical case studies exploring the application of digital technologies in higher education along with strategies to address new challenges facing educational institutions in the 21st century. This book establishes a selective synthesis of research on technology to help guide individuals within institutions of higher education faced with technological change. Focusing greatly on engineering education, it addresses technological concerns in order to find solutions that will help maximize the utility of new digital technologies and minimize their adverse effects in a variety of learning environments.

Cases on Interactive Technology Environments and Transnational Collaboration: Concerns and Perspectives

Sriran Mukerji (IGNOU, India) and Purnendu Tripathi (IGNOU, India)

Cases on Interactive Technology Environments and Transnational Collaboration: Concerns and Perspectives provides a comparative and comprehensive analysis of technologically enabled educational environments and various issues concerning education and collaborations across the world while also focusing on best practices and experiences from a varied range of countries.
Gaming for Classroom-Based Learning: Digital Role Playing as a Motivator of Study

Youngkyun Baek (Korea National University of Education, South Korea)

As part of an international dialogue between researchers in educational technology, Gaming for Classroom-Based Learning: Digital Role Playing as a Motivator of Study investigates whether games can motivate students to learn and improve their knowledge and skills. This collection of research aims to inform classroom and pre-service teachers of the potential of games for improving teaching and learning.

Technology Implementation and Teacher Education: Reflective Models

Junko Yamamoto (Slippery Rock University, USA), Joseph C. Kush (Duquesne University, USA), Ron Lombard (Chatham University, USA), and C. Jay Hertzog (Slippery Rock University, USA)

Technology Implementation and Teacher Education: Reflective Models provides teachers with the resources needed to address this challenge and develop new methodologies for addressing technology in practice. With chapters focusing on online and blended learning, subject-specific teacher education and social and affective issues, this reference provides a comprehensive, international perspective on the role of technology in shaping educational practices.

Learning Management System Technologies and Software Solutions for Online Teaching: Tools and Applications

Yefim Kats (Rivier College, USA)

Learning Management System Technologies and Software Solutions for Online Teaching: Tools and Applications focuses on the interaction between learning management systems and relevant teaching methodologies to bring attention to developments in distance learning technologies and programs. This book covers commercial and open-source LMSs as well as technologies used for synchronous and asynchronous course delivery, offering a comprehensive discussion of factors influencing the transition from one LMS to another. Discussing topics such as virtual labs, electronic portfolios, and technological solutions related to the problems of plagiarism, student tracking, assessment, and security of e-learning environment, this book proves to be a comprehensive guide on the available technological solutions in the area of online education.

Women in Engineering, Science and Technology: Education and Career Challenges

Aileen Cater-Steel (University of Southern Queensland, Australia) et al.

Women in Engineering, Science and Technology: Education and Career Challenges provides a collection of recent high-quality empirical studies related to the education and careers of women in engineering, science and technology disciplines, with cases on innovative approaches to attracting and supporting women in training courses, and discussions on the effectiveness of mentoring, role models, government policy, and initiatives by professional bodies.

Socio-Cultural Impacts of Workplace E-Learning: Epistemology, Ontology and Pedagogy

Karim A. Remtulla (University of Toronto, Canada)


Cases on Technological Adaptability and Transnational Learning: Issues and Challenges

Siran Mukerji (IGNOU, India) and Purnendu Tripathi (IGNOU, India)

Cases on Technological Adaptability and Transnational Learning: Issues and Challenges contains case studies on divergent themes of personalized learning environments, inclusive learning for social change, innovative learning and assessment techniques, technology and international partnership and transnational collaboration for enhanced access under the core domain of technological adaptability and transnational learning.
Virtual Environments for Corporate Education: Employee Learning and Solutions
William Ritke-Jones (Cybermations Consulting Group, USA)
Virtual Environments for Corporate Education: Employee Learning and Solutions provides theoretical background for the use of virtual realities in corporate education, focusing on practical applications such as the designing, implementing, and measuring of such technologies. This book discusses various ways in which technology can be integrated with virtual realities in order to provide the most effective learning environment. Overall, this book provides a foundation for those who want to discover how people have successfully used virtual realities for corporate education as well as ways in which to improve on already implemented ideas.

Cases on Technology Enhanced Learning through Collaborative Opportunities
Siran Mukerji (IGNOU, India) and Purnendu Tripathi (IGNOU, India)
Cases on Technology Enhanced Learning through Collaborative Opportunities analyzes and evaluates how organizations and institutions of learning in the developing and developed world are adapting to technology enhanced learning environments and exploring transnational collaborative opportunities, providing prospects for learning, growth and development through a blend of traditional and technological methods.

Cases on Transnational Learning and Technologically Enabled Environments
Siran Mukerji (IGNOU, India) and Purnendu Tripathi (IGNOU, India)
Cases on Transnational Learning and Technologically Enabled Environments reports on national and international initiatives undertaken to adapt advancements in information and communication technology and successfully face the challenges posed by various social and economic forces. The international research in this book represents instances of institutions that are in transition as well as those that are readily using technology in education.

Ethics and Game Design: Teaching Values through Play
Karen Schrier (Columbia University, USA) and David Gibson (University of Vermont, USA)
Ethics and Game Design: Teaching Values through Play is the first book in its field to challenge scholars and researchers to answer questions such as: How can game design be improved to foster ethical thinking and discourse? What are the theories and methodologies that will help us understand, model, and assess ethical thinking in games? How do we use games in classrooms and informal educational settings to support moral development? This distinguished publication approaches such questions from a multidisciplinary perspective with the ultimate goal of inspiring further interdisciplinary dialogue and research in order to continue building the ethics and games community.

Second Language Distance Learning and Teaching: Theoretical Perspectives and Didactic Ergonomics
Jean-Claude Bertin (University of Havre, France), Patrick Gravé (University of Havre, France), and Jean-Paul Narcy-Combes (Sorbonne nouvelle - Paris 3 University, France)
Second-Language Distance Learning and Teaching: Theoretical Perspectives and Didactic Ergonomics explores the construction of distance second language learning, its defined parameters, theoretical models, and model method validation. This reference work offers educators and practitioners a comprehensive and interdisciplinary perspective, while introducing the principles for understanding, designing, and running learning environments.

Web-Based Education: Concepts, Methodologies, Tools and Applications (3 Vols.)
Information Resources Management Association (USA)
Web-Based Education: Concepts, Methodologies, Tools, and Applications offers a compendium of research on the design, implementation, and evaluation of online learning technologies. This multi-volume collection addresses the challenges and opportunities associated with the creation and management of Web-based applications and communities, providing researchers, students and practitioners with essential findings in instructional design, personalized learning environments, and effective educational delivery.
Affective, Interactive and Cognitive Methods for E-Learning Design: Creating an Optimal Education Experience
Ainilis Tzanavari (University of Nicosia, Cyprus) and Nicolas Tsapatsoulis (Cyprus University of Technology, Cyprus)

Affective, Interactive, and Cognitive Methods for E-Learning Design: Creating an Optimal Education Experience bridges a current gap in e-learning literature through focus on the study and application of human computer interaction principles in the design of online education in order to offer students the optimal learning experience.

Educational Gameplay and Simulation Environments: Case Studies and Lessons Learned
David Kaufman (Simon Fraser University, Canada) and Louise Sauvè (Télé-université, Canada)

Educational Gameplay and Simulation Environments: Case Studies and Lessons Learned presents a remarkable collection of cases demonstrating how to conceptualize, design, and implement games and simulations effectively for learning. This paramount publication will aid educators, researchers, and game developers in broadening their work to effectively create and implement engaging learning environments for present and future students.

Interaction in Communication Technologies and Virtual Learning Environments: Human Factors
Angela T. Ragusa (Charles Sturt University, Australia)

Interaction in Communication Technologies and Virtual Learning Environments: Human Factors examines technological rationalism on communication and learning outcomes in a global, multi-cultural world. Drawing on the experiences and research expertise of key researchers and educators, this book presents real-world examples of virtual communicators in global, cross-cultural, and multi-dynamic environments.

Novel Developments in Web-Based Learning Technologies: Tools for Modern Teaching
Nikos Karacapilidis (University of Patras, Greece)

Novel Developments in Web-Based Learning Technologies: Tools for Modern Teaching addresses diverse conceptual, social, and technical issues in the modern era’s broad learning and teaching concepts. This significant reference provides professionals, researchers, and practitioners with up-to-date research in developing innovative and more effective learning systems by using Web-based technologies.

Cases on Successful E-Learning Practices in the Developed and Developing World: Methods for the Global Information Economy
Bolanle A. Olaniran (Texas Tech University, USA)

Cases on Successful E-Learning Practices in the Developed and Developing World: Methods for the Global Information Economy provides eclectic accounts of case studies in different contexts of e-learning. This advanced publication provides critical insights for practitioners and executives concerned with the management of knowledge, information, and organizational development.
Distance Learning Technology, Current Instruction, and the Future of Education: Applications of Today, Practices of Tomorrow

Holim Song (Texas Southern University, USA)

Distance Learning Technology, Current Instruction, and the Future of Education: Applications of Today, Practices of Tomorrow provides present and prospective directions of online education from various research fields, reporting on discussions from students, faculty members, researchers, and practitioners. This innovative publication contains significant and unique research findings influencing future developments in technology-enhanced education and industry.

Handbook of Research on Hybrid Learning Models: Advanced Tools, Technologies, and Applications

Fu Lee Wang (Caritas Francis Hsu College, Hong Kong), Joseph Fong (City University of Hong Kong, Hong Kong), and Reggie Kwan (City University of Hong Kong, Hong Kong)

The Handbook of Research on Hybrid Learning Models: Advanced Tools, Technologies, and Applications collects emerging research and pedagogies related to the convergence of teaching and learning methods. This significant resource provides access to the latest knowledge related to hybrid learning, discovered and written by an international gathering of e-learning experts.

Multiple Literacy and Science Education: ICTs in Formal and Informal Learning Environments

Susan Rodrigues (University of Dundee, Scotland)

Multiple Literacy and Science Education: ICTs in Formal and Informal Learning Environments explores various learning mediums and their consequences within a classroom context to synchronize understanding within the schooling fields. This authoritative collection provides an overview of current research regarding further development for best practices of multiple literacy teaching atmospheres.

Technologies Shaping Instruction and Distance Education: New Studies and Utilizations

Mahbubur Rahman Syed (Minnesota State University, USA)

Technologies Shaping Instruction and Distance Education: New Studies and Utilizations offers insight into evolving methodologies and tools impacting education in the 21st century. Investigations of topics such as Web-based forums, multimedia tools and mobile e-learning benefit students, educators, and researchers who develop and use new pedagogical technologies and techniques.

Digital Imagery and Informational Graphics in E-Learning: Maximizing Visual Technologies

Shalin Hai-Jew (Kansas State University, USA)

Digital Imagery and Informational Graphics in E-Learning: Maximizing Visual Technologies offers useful methods for creating digital imagery as well as leading pedagogical theories and research on the implementation of inherited images. This advanced publication features applied, hands-on strategies related to capturing and authoring tools used to acquire and create graphics.
Technology-Supported Environments for Personalized Learning: Methods and Case Studies
John O’Donoghue (University of Central Lancashire, UK)

Technology-Supported Environments for Personalized Learning: Methods and Case Studies explores the metaphor of anytime and anywhere individual education as well as the idea of tailoring instruction to meet individual needs. This innovative collection explores a variety of leading research in educational skills, knowledge, expertise, and experience.

Architectures for Distributed and Complex M-Learning Systems: Applying Intelligent Technologies
Santi Caballe (Open University of Catalonia, Spain), Fatos Xhafa (Open University of Catalonia, Spain), Thanasis Daradoumis (Open University of Catalonia, Spain), and Angel A. Juan (Open University of Catalonia, Spain)

Architectures for Distributed and Complex M-Learning Systems: Applying Intelligent Technologies explores state-of-the-art software architectures and platforms used to support distributed and mobile e-learning systems. Containing research from leading international experts, this advanced publication provides useful references to support learning practices for academicians, researchers, and practitioners.

Cases on Collaboration in Virtual Learning Environments: Processes and Interactions
Donna Russell (University of Missouri at Kansas City, USA)

Cases on Collaboration in Virtual Learning Environments: Processes and Interactions provides a systematic response to this highly innovative and rapidly evolving field for enhanced education and training. This publication offers a critical collection of leading explorations useful to educational practitioners, researchers, and those involved in related fields of study.

Cases on Distance Delivery and Learning Outcomes: Emerging Trends and Programs
Deb Gearhart (Troy University, USA)

Cases on Distance Delivery and Learning Outcomes: Emerging Trends and Programs explores promising developments and techniques in the field of online learning, offering innovative solutions for successful strategies. This advanced publication provides academicians with a valuable collection of cases contributed by practitioners and experts in the field of distance education.

Cases on Online and Blended Learning Technologies in Higher Education: Concepts and Practices
Yukiko Inoue (University of Guam, Guam)

Cases on Online and Blended Learning Technologies in Higher Education: Concepts and Practices provides real-life examples and experiences of those involved in developing and implementing the merge of traditional education curriculum and online instruction. This advanced publication provides a wide range of the most current designs, methodologies, tools, and applications.

Cases on Online Tutoring, Mentoring, and Educational Services: Practices and Applications
Gary A. Berg (California State University-Channel Islands, USA)

Cases on Online Tutoring, Mentoring, and Educational Services: Practices and Applications examines the rapidly developing sector of online educational services for individuals involved with e-tutoring and e-mentoring. Providing real-world examples, this publication offers an in-depth analysis of how learning and knowledge acquisition occurs.
Comparative Blended Learning Practices and Environments
Eugenia M. W. Ng
(Hong Kong Institute of Education, Hong Kong)

Comparative Blended Learning Practices and Environments offers in-depth analysis of new technologies in blended learning that promote creativity, critical thinking, and meaningful learning. This advanced publication combines expert perspectives from international scholars enabling researchers, academicians, and practitioners to devise innovative Web-based learning approaches.

Handbook of Research on Human Performance and Instructional Technology
Holim Song (Texas Southern University, USA) and Terry Kidd (Texas A&M University, USA)
The Handbook of Research on Human Performance and Instructional Technology provides theoretical understanding of the essential link between education, training development, organization development, performance improvement, and instructional technology. This Handbook of Research is instrumental in providing the latest knowledge related to instructional technology and human performance.

ICTs for Modern Educational and Instructional Advancement: New Approaches to Teaching
Lawrence Tomei (Robert Morris University, USA)

ICTs for Modern Educational and Instructional Advancement: New Approaches to Teaching explores current models and issues involved with online course development, assessment, and blended learning. This Premier Reference Source takes a futuristic peek at the classroom of the new millennium and emerging technologies expected in the 21st century.

Cases on Technologies for Teaching Criminology and Victimology: Methodologies and Practices
Raffaella Sette (University of Bologna, Italy)

Cases on Technologies for Teaching Criminology and Victimology: Methodologies and Practices presents state-of-the-art research and teaching into the study of corruption and those affected by it. This unique publication analyzes the benefits and disadvantages of various teaching methodologies in universities, police academies, and crime victim services.

Designing Instruction for the Traditional, Adult, and Distance Learner: A New Engine for Technology-Based Teaching
Lawrence A. Tomei (Robert Morris University, USA)

Designing Instruction for the Traditional, Adult, and Distance Learner: A New Engine for Technology-Based Teaching explores how technology impacts the process of devising instructional plans for adult students. Containing research from leading experts, this publication proposes realistic and accurate archetypes to assist educators in incorporating state-of-the-art technologies into online instruction.
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**Technoliteracy, Discourse, and Social Practice: Frameworks and Applications in the Digital Age**

Darren Lee Pullen (University of Tasmania, Australia), Christina Gitsaki (University of Queensland, Australia), and Margaret Baguley (University of Southern Queensland, Australia)

Technoliteracy, Discourse, and Social Practice: Frameworks and Applications in the Digital Age utilizes a range of technologies and multiliteracies challenging social conventions and expectations of behavior. A defining body of research, this publication provides unique and significant insights into the diverse approaches and implementation of various contexts.

**Technology-Assisted Problem Solving for Engineering Education: Interactive Multimedia Applications**

Manjit Singh Sidhu (Universiti Tenaga Nasional, Malaysia)

Technology-Assisted Problem Solving for Engineering Education: Interactive Multimedia Applications explores best practices in assisting students in understanding engineering concepts through interactive and virtual environments. A critical mass of leading international findings, this advanced publication delivers quality research using learning and consultation for developing tactics to decipher dilemmas within the field.

**Adult Learning in the Digital Age: Perspectives on Online Technologies and Outcomes**

Terry T. Kidd (Texas A&M University, USA) and Jared Keengwe (University of North Dakota, USA)

Adult Learning in the Digital Age: Perspectives on Online Technologies and Outcomes provides a comprehensive framework of trends and issues related to adult learning. This significant reference source offers a valuable compendium of expert ideas concerning the advancement of new technological and pedagogical techniques used in adult schooling.

**Collective Intelligence and E-Learning 2.0: Implications of Web-Based Communities and Networking**

Harrison Hao Yang (State University of New York, USA) and Steve Chi-Yin Yuen (University of Southern Mississippi, USA)

Collective Intelligence and E-Learning 2.0: Implications of Web-Based Communities and Networking provides a valuable reference to the latest advancements in the area of e-learning. This innovative collection includes a selection of world-class chapters addressing current research, case studies, best practices, pedagogical approaches, and strategies related to e-learning resources and projects.

**Information Communication Technologies for Human Services Education and Delivery: Concepts and Cases**

Jennifer Martin (RMIT, Australia) and Linette Hawkins (RMIT, Australia)

Information Communication Technologies for Human Services Education and Delivery: Concepts and Cases contributes to the growing area of ICT application in education and human service delivery. This Premier Reference Source showcases innovative practices, addresses ethical and logistic concerns, and provides relevant theoretical frameworks and the latest empirical research findings.

**Online Education and Adult Learning: New Frontiers for Teaching Practices**

Terry Kidd (Texas A&M University, USA)

Online Education and Adult Learning: New Frontiers for Teaching Practices disseminates current issues and trends emerging in the field of adult e-learning and online instruction. This advanced publication provides understanding of the links between authentic learning, social psychology, instructional design, e-learning, online education, and various additional methods of adult learning.
Online Learning Communities and Teacher Professional Development: Methods for Improved Education Delivery

J. Ola Lindberg (Mid Sweden University, Sweden) and Anders D. Olofsson (Umea University, Sweden)

Online Learning Communities and Teacher Professional Development: Methods for Improved Education Delivery features innovative applications for the integration of technology into everyday teaching practices. This defining collection of field research discusses how technology itself can serve as an important resource in terms of providing arenas for professional development.

Technology for Early Childhood Education and Socialization: Developmental Applications and Methodologies

Satomi Izumi-Taylor (University of Memphis, USA) and Sally Blake (University of Memphis, USA)

Technology for Early Childhood Education and Socialization: Developmental Applications and Methodologies provides valuable and authentic research on how technology relates to early childhood growth. Including international perspectives on technology and education from expert authors, this book discusses important issues of assessment, teacher education, and family involvement in terms of technology.

Multiliteracies and Technology Enhanced Education: Social Practice and the Global Classroom

Darren L. Pullen (University of Tasmania, Australia) and David R. Cole (University of Tasmania, Australia)

Multiliteracies and Technology Enhanced Education: Social Practice and the Global Classroom features theoretical reflections and approaches on the use of multiliteracies and technologies in the improvement of education and social practices. This innovative publication supports practitioners concerned with teaching at both a local and global level.

Multiplatform E-Learning Systems and Technologies: Mobile Devices for Ubiquitous ICT-Based Education

Tiong T. Goh (Victoria University of Wellington, New Zealand)

Multiplatform E-Learning Systems and Technologies: Mobile Devices for Ubiquitous ICT-Based Education addresses technical challenges, design frameworks, and development experiences that integrate multiple mobile devices into a single multiplatform e-learning system. With contributions from international experts, this collection benefits researchers, academicians, and practitioners interested in this growing field.

Web-Based Learning Solutions for Communities of Practice: Developing Virtual Environments for Social and Pedagogical Advancement

Nikos Karacapilidis (University of Patras, Greece)

Web-Based Learning Solutions for Communities of Practice: Developing Virtual Environments for Social and Pedagogical Advancement provides cutting-edge research on topics and discusses their implications within the modern era’s broad learning concept. This book provides up-to-date research in developing innovative and more effective learning systems through the use of Web-based technologies.
Engineering

The field of engineering has existed for as long as civilization as ancient human beings created the first fundamental tools to aid in their survival. Today, the field of engineering presents diverse research which is constantly evolving to fit the needs of modern civilization.

IGI Global’s Engineering subject area features the latest developments, tools, and applications in a broad range of engineering disciplines including mechanical, environmental, chemical, industrial, electrical, and civil engineering. Researchers, students, business managers, and engineers will find the comprehensive and diverse titles in this collection particularly relevant in furthering their knowledge in the field.
Handbook of Research on Advancements in Robotics and Mechatronics (2 Vols.)
Maki K. Habibi (The American University in Cairo, Egypt)

The Handbook of Research on Advancements in Robotics and Mechatronics presents new findings, practices, technological innovations, and theoretical perspectives on the latest advancements in the field of mechanical engineering. This book is of great use to engineers, scientists, students, researchers, and practitioners looking to develop autonomous and smart products and systems for meeting today's challenges.

Performance Optimization Techniques in Analog, Mixed-Signal, and Radio-Frequency Circuit Design
Mourad Fakhfakh (University of Sfax, Tunisia), Esteban Tlelo-Cuautle (INAOE, Mexico), and Maria Helena Fino (New University of Lisbon, Portugal)

Performance Optimization Techniques in Analog, Mix-Signal, and Radio-Frequency Circuit Design features recent advances in the engineering of integrated systems with prominence placed on methods for maximizing the functionality of these systems. This book emphasizes prospective trends in the field and is an essential reference source for researchers, practitioners, engineers, and technology designers interested in emerging research and techniques in the performance optimization of different circuit designs.

Technology and Practice in Geotechnical Engineering
Joseph Adeyeri (Federal University Oye-Ekiti, Nigeria)

Technology and Practice in Geotechnical Engineering brings together theory and practical application, thus offering a unified and thorough understanding of soil mechanics. Highlighting illustrative examples, technological applications, and theoretical and foundational concepts, this book is a crucial reference source for students, practitioners, contractors, architects, and builders interested in the functions and mechanics of sedimentary materials.

Handbook of Research on Advanced Intelligent Control Engineering and Automation
Ahmad Taher Azar (Benha University, Egypt) and Sundarapandian Vaidyanathan (Vel Tech University, India)

The Handbook of Research on Advanced Intelligent Control Engineering and Automation presents the latest research into intelligent control technologies with the goal of advancing knowledge and applications in various domains. This text will serve as a reference book for scientists, engineers, and researchers, as it features many applications of new computational and mathematical tools for solving complicated problems of mathematical modeling, simulation, and control.

Handbook of Research on Diverse Applications of Nanotechnology in Biomedicine, Chemistry, and Engineering
Shivani Soni (Alabama State University, USA), Amandeep Salhotra (City of Hope National Medical Center, USA), and Mrutyunjay Suar (KIIT University, India)

The Handbook of Research on Diverse Applications of Nanotechnology in Biomedicine, Chemistry, and Engineering examines the strengths and future potential of micro-scale technologies in a variety of industries. Highlighting the benefits, shortcomings, and emerging perspectives in the application of nano-scale technologies, this book is a comprehensive reference source for synthetic chemists, engineers, graduate students, and researchers with an interest in the multidisciplinary applications, as well as the ongoing research in the field.

Fracture and Damage Mechanics for Structural Engineering of Frames: State-of-the-Art Industrial Applications
Julio Florez-Lopez (University of Los Andes, Venezuela), Maria Eugenia Marante (Lisandro Alvarado University, Venezuela), and Ricardo Picon (Lisandro Alvarado University, Venezuela)

Fracture and Damage Mechanics for Structural Engineering of Frames: State-of-the-Art Industrial Applications outlines the latest computational tools, models, and methodologies surrounding the analysis of wall and frame load support and resilience. Emphasizing best practices in computational simulation for civil engineering applications, this reference work is invaluable to postgraduate students, academicians, and engineers in the field.
Nanotechnology Applications for Improvements in Energy Efficiency and Environmental Management

M.A. Shah (National Institute of Technology, Srinagar, India), M.A. Bhat (Department of Bio-Medical Engineering, Sathyabama University, India), and J. Paulo Davim (University of Aveiro, Portugal)

Nanotechnology Applications for Improvements in Energy Efficiency and Environmental Management combines up-to-date research findings and relevant theoretical frameworks on the subject of micro-scale technologies being used to promote environmental sustainability. Highlighting the impacts this technology has on energy production and remediation, this book is an all-inclusive reference source for professionals and researchers interested in understanding the multi-disciplinary applications of nanotechnology and nanoscience.

Innovative Applications and Developments of Micro-Pattern Gaseous Detectors

Tom Francke (Myon, Sweden), Vladimir Peskov (CERN, Switzerland)

Innovative Applications and Developments of Micro-Pattern Gaseous Detectors focuses on the analysis and use of various gas detection systems, providing a detailed description of some of the most commonly used gas detectors and the science behind them. From early detectors to modern tools and techniques, this book will be of particular use to practitioners and researchers in chemical engineering and materials science, in addition to students and academicians concentrating in the field.

Handbook of Research on Nanoscience, Nanotechnology, and Advanced Materials

Mohamed Bououdina (University of Bahrain, Bahrain) and J. Paulo Davim (University of Aveiro, Portugal)

The Handbook of Research on Nanoscience, Nanotechnology, and Advanced Materials presents a detailed analysis of current experimental and theoretical approaches surrounding nanomaterials science. With applications in fields such as biomedicine, renewable energy, and synthetic materials, the research in this book will provide experimentalists, professionals, students, and academics with an in-depth understanding of nanoscience and its impact on modern technology.

X-Ray Line Profile Analysis in Materials Science

Jenő Gubicza (Eötvös Loránd University, Hungary)

X-Ray Line Profile Analysis in Materials Science aims to synthesize the existing knowledge of the theory, methodology, and applications of x-ray line profile analysis in real-world settings. This publication presents both the theoretical background and practical implementation of x-ray line profile analysis and serves as a reference source for engineers in various disciplines as well as scholars and upper-level students.

Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills

Liguo Yu (Indiana University South Bend, USA)

Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills combines recent advances and best practices to improve the curriculum of software engineering education. This book is an essential reference source for researchers and educators seeking to bridge the gap between industry expectations and what academia can provide in software engineering education.
Nuclear Power Plant Instrumentation and Control Systems for Safety and Security

Michael Vastrebenetsky (State Scientific and Technical Centre for Nuclear and Radiation Safety, Ukraine) and Vyacheslav Kharchenko (National Aerospace University-KhAI, Ukraine, and Centre for Safety Infrastructure-Oriented Research and Analysis, Ukraine)

Nuclear Power Plant Instrumentation and Control Systems for Safety and Security evaluates the risks inherent to nuclear power and methods of preventing accidents through computer control systems and other such emerging technologies. Students and scholars as well as operators and designers will find useful insight into the latest security technologies with the potential to make the future of nuclear energy clean, safe, and reliable.

Surface Engineering Techniques and Applications: Research Advancements

Loredana Santo (University of Rome "Tor Vergata", Italy) and J. Paulo Davim (University of Aveiro, Portugal)

Surface Engineering Techniques and Applications: Research Advancements provides recent developments in surface engineering techniques and applications. It details scientific and technological results while also giving insight to current research, economic impact, and environmental concerns so that academics, practitioners, and professionals in the field, as well as students studying these areas, can deepen their understanding of new surface processes.

Risk Analysis for Prevention of Hazardous Situations in Petroleum and Natural Gas Engineering

Davorin Matanovic (University of Zagreb, Croatia), Nediljka Gaurina-Medimurec (University of Zagreb, Croatia), and Katarina Simon (University of Zagreb, Croatia), Katarina Simon (University of Zagreb, Croatia) and Davorin Matanovic (University of Zagreb, Croatia), and Davorin Matanovic (University of Zagreb, Croatia)

Risk Analysis for Prevention of Hazardous Situations in Petroleum and Natural Gas Engineering explains the potential hazards of petroleum engineering activities, emphasizing risk assessments in drilling, completion, and production, and the gathering, transportation, and storage of hydrocarbons. Designed to aid in decision-making processes for environmental protection, this book is a useful guide for engineers, technicians, and other professionals in the petroleum industry interested in risk analysis for preventing hazardous situations.

Computer-Mediated Briefing for Architects

Alexander Koutamanis (Delft University of Technology, the Netherlands)

Computer-Mediated Briefing for Architects overviews the possibilities and limitations offered by various types of computer programs, such as database management systems, diagramming software, CAD, and BIM. This book offers a practical approach in the accommodation of these programs and is an essential reference for architectural educators, students, and practitioners with hands on experience in either compiling briefs or using the briefs for design.

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Research Developments in Wood Engineering and Technology
Alfredo Aguilera (Universidad Austral de Chile, Chile) and J. Paulo Davim (University of Aveiro, Portugal)
Research Developments in Wood Engineering and Technology examines the latest research advances and technological developments for wood material as an engineering product and the innovation it provides for environmentally friendly materials. This reference source is essential for academics, engineers, students, and professionals involved in the multidisciplinary fields of wood science, mechanical, industrial, and manufacturing engineering.

Technologies for Urban and Spatial Planning: Virtual Cities and Territories
Nuno Norte Pinto (The University of Manchester, UK), José António Tenedório (Universidade NOVA de Lisboa, Portugal), António Pais Antunes (University of Coimbra, Portugal), and Josep Roca Cladera (Technical University of Catalonia, BarcelonaTech, Spain)
Technologies in Urban and Spatial Planning: Virtual Cities and Territories covers a multitude of newly developed hardware and software technology advancements in urban and spatial planning and architecture. This publication draws on the most current research and studies of field practitioners who offer solutions and recommendations for further growth, specifically in urban and spatial developments. Researchers, practitioners, and graduate students seeking to enhance their understanding of the latest advancements and theories will benefit greatly from this publication.

Hybrid Electric Power Train Engineering and Technology: Modeling, Control, and Simulation
Antoni Szumanowski (Warsaw University of Technology, Poland)
Hybrid Electric Power Train Engineering and Technology: Modeling, Control, and Simulation provides readers with an academic investigation into HEV power train design using mathematical modeling and simulation of various hybrid electric motors and control systems. This book explores the construction of the most energy efficient power trains, which is of importance to designers, manufacturers, and students of mechanical engineering. This book is part of the Research Essentials collection.

Engineering Creative Design in Robotics and Mechatronics
Maki K. Habib (The American University in Cairo, Egypt) and J. Paulo Davim (University of Aveiro, Portugal)
Engineering Creative Design in Robotics and Mechatronics captures the latest research developments in the subject field of robotics and mechatronics and provides relevant theoretical knowledge in this field. Providing interdisciplinary development approaches, this reference source prepares students, scientists, and professional engineers with the latest research development to enhance their skills of innovative design capabilities.

Diagnostics and Prognostics of Engineering Systems: Methods and Techniques
Seifedine Kadry (American University of the Middle East, Kuwait)
Diagnostics and Prognostics of Engineering Systems: Methods and Techniques provides widespread coverage and discussions on the methods and techniques of diagnosis and prognosis systems, including practical examples to display the method's effectiveness in real-world applications as well as the latest trends and research, this reference source aims to introduce fundamental theory and practice for system diagnosis and prognosis.
Advanced Instrument Engineering: Measurement, Calibration, and Design
Aime Lay-Ekuakille (University of Salento, Italy)
Advanced Instrument Engineering: Measurement, Calibration, and Design presents theoretical and practical aspects on the activities concerning measurement technologies and instrumentation. This wide range of new ideas in the field of measurements and instrumentation is useful to researchers, scientists, practitioners, and technicians for their area of expertise.

Formal Methods in Manufacturing Systems: Recent Advances
Zhiwu Li (Xidian University, China) and Abdurrahman M. Al-Ahmari (King Saud University, Saudi Arabia)
Formal Methods in Manufacturing Systems: Recent Advances explores this shifting paradigm through an investigation of contemporary manufacturing techniques and formal methodologies that strive to solve a variety of issues arising from a market environment that increasingly favors flexible systems over traditional ones. This book will be of particular use to industrial engineers and students of the field who require a detailed understanding of current trends and developments in manufacturing tools. This book is part of the Advances in Civil and Industrial Engineering series collection.

MAX Phases and Ultra-High Temperature Ceramics for Extreme Environments
I. M. Low (Curtin University, Perth, Australia), Y. Sakka (National Institute for Materials Science (NIMS), Japan), and C. F. Hu (Chinese Academy of Sciences, China)
MAX Phases and Ultra-High Temperature Ceramics for Extreme Environments investigates a new class of ultra-durable ceramic materials, which exhibit characteristics of both ceramics and metals. Readers will explore recent advances in the manufacturing of ceramic materials that improve their durability and other physical properties, enhancing their overall usability and cost-effectiveness. This book will be of primary use to researchers, academics, and practitioners in chemical, mechanical, and electrical engineering. This book is part of the Research Essentials collection.

Theoretical and Analytical Service-Focused Systems Design and Development
Dickson K.W. Chiu (Dickson Computer Systems, Hong Kong)
Theoretical and Analytical Service-Focused Systems Design and Development provides solutions to these challenges. It advances the practice and understanding of contemporary theories and empirical analysis for systems engineering in a way that achieves service excellence.

Technology and Energy Sources Monitoring: Control, Efficiency, and Optimization
Jozef Fizikowski (UTP - University of Technology and Life Sciences, Poland) and Kazimierz Bielinski (UTP - University of Technology and Life Sciences, Poland)
Technology and Energy Sources Monitoring: Control, Efficiency, and Optimization provides an understanding of the technology and energy processes of renewable energy sources, biomaterials and much more. By outlining the primary intent of the applications of energy technology and sustainable energy systems development, this book aims to bring a deeper understanding on the innovations taken towards the monitoring of energy sources.

Integrating Advanced Computer-Aided Design, Manufacturing, and Numerical Control: Principles and Implementations
Xun Xu (University of Auckland, New Zealand)
Integrating Advanced Computer-Aided Design, Manufacturing, and Numerical Control: Principles and Implementations presents basic principles of product modeling and manufacturing while featuring contemporary industrial case studies. A one-stop reference source for the latest international standards, and their implementations, this comprehensive title also expands beyond the traditional scope of the product development process to give a brief account on product data management (PDM) and product lifecycle management (PLM).
Environmental Science and Technologies

Now more than ever, researchers are becoming increasingly concerned with the state of the environment and the impact human beings have on the world in which we live. In an effort to create a sustainable future, research on topics pertaining to measuring, analyzing, and preserving our global environment is essential.

IGI Global’s Environmental Science and Technologies subject area features research from both industry professionals and academicians surrounding diverse topics in environmental science as well as the tools and technologies being developed in the field. These titles feature diverse research on topics such as climate change, renewable energy, pollution, agriculture, food science, sustainability, and geospatial technologies, and are ideal for students, environmental scientists, researchers, engineers, and policymakers seeking timely and informative research in the field.
Handbook of Research on Advancements in Environmental Engineering

Nediljka Gaurina-Medjimurec (University of Zagreb, Croatia)

The Handbook of Research on Advancements in Environmental Engineering creates awareness of the role engineering plays in protecting and improving the natural environment. Providing the latest empirical research findings, this book is an essential reference source for executives, educators, and other experts who seek to improve their project’s environmental costs.

Soft Computing Applications for Renewable Energy and Energy Efficiency

Maria del Socorro García Cascales (Technical University of Cartagena, Spain), et al.

Soft Computing Applications for Renewable Energy and Energy Efficiency brings together the latest technological research in computational intelligence and fuzzy logic as a way to care for our environment. This reference work highlights current advances and future trends in environmental sustainability using the principles of soft computing, making it an essential resource for students, researchers, engineers, and practitioners in the fields of project engineering and energy science.


Shin’ya Obara (Kitami Institute of Technology, Japan)

Optimum Design of Renewable Energy Systems: Microgrid and Nature Grid Methods investigates the development of highly efficient energy storage equipment and operation optimization technology of compound energy systems. This book is an essential reference source for technical consultants, urban environment engineers, and energy researchers interested in the development of efficient energy systems and operation optimization technology.

Green Technology Applications for Enterprise and Academic Innovation

Ezendu Ariwa (University of Bedfordshire, UK)

Green Technology Applications for Enterprise and Academic Innovation addresses the importance of green technology and sustainability for technology, enterprise, and academic innovation in energy management, renewable energy, and carbon reduction strategies. This book acts as the bridge for practitioners, academia, businesses, industrialists, governmental executives, and students seeking research in this emerging area.

Impacts of Climate Change on Food Security in Small Island Developing States

Wayne G. Ganpat (The University of the West Indies, Trinidad and Tobago) and Wendy-Ann P. Isaac (The University of the West Indies, Trinidad and Tobago)

Impacts of Climate Change on Food Security in Small Island Developing States discusses the repercussions of a shifting climate on food production and availability in small island nations. Comprised of research-based chapters on topics relevant to crop management, sustainable development, and livestock management on island territories, this advanced reference work is appropriate for environmental researchers, food scientists, academicians, and upper-level students seeking the latest information on agricultural concerns amidst a changing climate.

Sustainability Science for Social, Economic, and Environmental Development

Nilanjan Ghosh (Multi Commodity Exchange of India Limited, India) and Anandajit Goswami (The Energy and Resources Institute, India)

Sustainability Science for Social, Economic, and Environmental Development investigates the role of sustainability in the everyday lives of ordinary citizens, including issues of economy, social interaction, exploitation of natural resources, and sources of renewable energy. In this book, researchers, policy makers, economists, scientists, and general readers will all find crucial insight into the parallels between theory and practice in sustainable development.
Sustainable Practices: Concepts, Methodologies, Tools, and Applications (3 Vols.)

Information Resources Management Association (USA)

Sustainable Practices: Concepts, Methodologies, Tools, and Applications explores some of the most recent developments in sustainability, delving into topics beyond environmental science to cover issues of sustainable economic, political, and social development. Researchers, academicians, and policy makers will use this multi-volume reference to better make use of the resources at their disposal in order to preserve quality of life for future generations.

Marine Technology and Sustainable Development: Green Innovations

Oladokun Sulaiman Olarenwaju (University Malaysia Terengganu, Malaysia), et al.

Marine Technology and Sustainable Development: Green Innovations examines theoretical frameworks and empirical research in the maritime industry, evaluating new technologies, methodologies, and practices against a backdrop of sustainability. This critical reference encourages the discussion and exploration of diverse opinions on the benefits and challenges of new marine technologies essential for marine and maritime professionals, researchers and scholars hoping to improve their understanding of environmental considerations in preserving the world’s oceanic resources.

Geographic Information Systems: Concepts, Methodologies, Tools, and Applications (4 Vols.)

Information Resources Management Association (USA)

Geographic Information Systems: Concepts, Methodologies, Tools, and Applications is a collection of knowledge on the latest advancements and research of geographic information systems. This book aims to be useful for academics and practitioners involved in geographical data.

Cases on the Diffusion and Adoption of Sustainable Development Practices

Helen E. Muga (University of Mount Union, USA) and Ken D. Thomas (Auburn University, USA)

Cases on the Diffusion and Adoption of Sustainable Development Practices is a collection of case studies on the concepts and theories of successful sustainable practices as well as identifying key mechanisms and strategies that have allowed the successful diffusion of these practices into communities, regions and nations around the world. This reference source is essential for professionals, researchers, educators and leaders in pursuit of innovative solutions in sustainable development.

Sustainable Technologies, Policies, and Constraints in the Green Economy

Andrei Jean-Vasile (Petroleum and Gas University of Ploiesti, Romania), et al.

Sustainable Technologies, Policies, and Constraints in the Green Economy carefully investigates the complex issues which surround the wide array of concepts, policies, and measures that come into play when promoting this somewhat new ideology. This publication covers over 50 years of research in the field in order to provide the best theoretical frameworks and empirical research to its readers. Professors, researchers, practitioners, and students will all benefit from the relevant discussions and diverse conclusions which are revealed in these chapters.

International and Interdisciplinary Studies in Green Computing

K. Ganesh (McKinsey & Company, India) and S.P.Anbuudayasankar (Amrita School of Engineering, India)

International and Interdisciplinary Studies in Green Computing provides coverage on strategic green issues and practices for competitive advantage and cost savings in modern organizations and business sectors in order to reach their environmental goals.
Creating a Sustainable Ecology Using Technology-Driven Solutions
Elias G. Carayannis (The George Washington University School of Business, USA)

Creating a Sustainable Ecology Using Technology-Driven Solutions highlights matters that relate to technology driven solutions towards the combination of social ecology and sustainable development. This publication addresses the issues of development in advancing and transitioning economies through creating new ideas and solutions; making it useful for researchers, practitioners, and policy makers in the socioeconomic sectors.

Handbook of Research on Geoinformatics
Hassan A. Karimi (University of Pittsburgh, USA)

The Handbook of Research on Geoinformatics is the first reference work to map this exciting interdisciplinary field, discussing the complete range of contemporary research topics such as computer modeling, geometry, geoprocessing, and geographic information systems. This expansive reference work covers the complete range of geoinformatics related issues, trends, theories, technologies, and applications.

Emerging Spatial Information Systems and Applications
Brian Hilton (Claremont Information and Technology Institute)

Several emerging phenomena and technologies, such as the increasing availability of open source software and the continuing evolution of distributed computing, are introducing a new dynamic into information system development. Emerging Spatial Information Systems and Applications presents innovative spatial information systems that have been developed for a specific problem or decision-making situation and discusses key concepts and theories underlying current spatial information systems, as well as technology trends and emerging concepts that may impact spatial information system development and applications.

Intelligent Computational Paradigms in Earthquake Engineering
Nikos Lagaros (University of Crete) and Yiannis Tsonopanakis (University of Crete)

Intelligent Computational Paradigms in Earthquake Engineering presents the application of learning machines, artificial neural networks and support vector machines as highly-efficient pattern recognition tools for structural damage detection. It includes an AI-based evaluation of bridge structures using life-cycle cost principles that considers seismic risk, and emphasizes the use of AI methodologies in a geotechnical earthquake engineering application.

Collaborative Geographic Information Systems
Shivanand Balram (Simon Fraser University, Canada) and Suzana Dragicevic (Simon Fraser University, Canada)

Many advances in the integration of group spatial modeling, geographic information systems (GIS), and the Internet have occurred in recent years, however there is a lack of materials to highlight the transdisciplinary characteristics and impacts of this convergence while providing a uniform and consistent treatment of this expanding field of research. Collaborative Geographic Information Systems identifies unifying concepts in the field and presents them in a single volume, providing a comprehensive treatment of collaborative GIS focusing on system design, group spatial planning and mapping, Internet and wireless applications, and more. This book also details the theories, processes, and tools for designing and implementing collaborative GIS, and explores collaborative GIS methodologies currently being used or developed.
Library and Information Science

With the digital revolution, the field of library and information science is seeing a tremendous shift as information goes digital and new platforms for sharing data are developed. Considering this transformation, librarians and information specialists are constantly seeking the most up-to-date research in the field.

Titles within IGI Global’s Library and Information Science subject area feature the latest research on diverse topics relating to knowledge and information management, data science, library science, and research methods. Featuring titles illustrating the latest developments in the field, this collection will be of interest to librarians, archivists, information professionals, and academicians.
Handbook of Research on Interactive Information Quality in Expanding Social Network Communications

Francisco V. Cipolla-Ficarra (Latin Association of Human-Computer Interaction, Spain & International Association of Interactive Communication, Italy)

The Handbook of Research on Interactive Information Quality in Expanding Social Network Communications examines the strategic elements involved in ICT training within the context of online networks. Combining scientific, theoretical, and practical perspectives on the importance of communicability in such networks, this book is an essential reference source for researchers, students, teachers, designers, ICT specialists, engineers, and computer programmers interested in social networking technologies.

Social Media Strategies for Dynamic Library Service Development

Adeyinka Tellis (University of Ilorin, Nigeria)

Social Media Strategies for Dynamic Library Service Development discusses the integration of digital social networking into library practices. Highlighting the advantages and challenges faced by libraries in the application of social media, this publication is a critical reference source for professionals and researchers working within the fields of library and information science, as well as practitioners and executives interested in the utilization of social technologies in relation to knowledge management and organizational development.

Collaborative Knowledge in Scientific Research Networks

Paolo Diviacci (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS), Trieste, Italy), Peter Fox (Rensselaer Polytechnic Institute, Troy, USA), Cyril Pahen (Geonews Project, ITMO University, St. Petersburg, Russia), and Adam Leadbetter (British Oceanographic Data Centre, NERC, Liverpool, UK)

Collaborative Knowledge in Scientific Research Networks addresses the various systems in place for collaborative e-research and how these practices serve to enhance the quality of research across disciplines. Covering new networks available through social media as well as traditional methods such as mailing lists and forums, this publication considers various scientific disciplines and their individual needs. Theorists of collaborative scientific work, technology developers, researchers, and funding agency officials will find this book valuable in exploring and understanding the process of scientific collaboration.

Enhancing Qualitative and Mixed Methods Research with Technology

Shalin Hai-Jew (Kansas State University, USA)

Enhancing Qualitative and Mixed Methods Research with Technology explores the integration of new digital tools into the research process. Including current information on data visualization, research design, information capture, as well as social media analysis, this publication serves as an ideal reference source for academicians, scientists, information specialists, business managers, and upper-level students involved in interdisciplinary research.

Developing Churn Models Using Data Mining Techniques and Social Network Analysis

Goran Klepac (Raiffeisenbank Austria Zagreb, Croatia), Robert Kopal (University College for Applied Computer Engineering Alcorza Zagreb, Croatia & University College for Law and Finance Effectus Zagreb, Croatia), and Leo Mršić (University College for Applied Computer Engineering Alcorza Zagreb, Croatia & University College for Law and Finance Effectus Zagreb, Croatia)

Developing Churn Models Using Data Mining Techniques and Social Network Analysis provides an in-depth analysis of churn modeling relevant to business planning and management. Through its insightful and detailed explanation of best practices, tools, and theory surrounding churn prediction and the integration of analytics tools, this publication is especially relevant to managers, data specialists, business analysts, academicians, and upper-level students.

Inventive Approaches for Technology Integration and Information Resources Management

Mehdi Khosrow-Pour (Information Resources Management Association, USA)

Inventive Approaches for Technology Integration and Information Resources Management provides an overview and analysis of knowledge management in sustainability, emergency preparedness, and IT, among other fields integral to the modern technological era. By providing a foundation for innovative practices in using technology and information resources, this publication is essential for practitioners and professionals, as well as undergraduate/graduate students and academicians.
Biologically-Inspired Techniques for Knowledge Discovery and Data Mining

Shafiq Alam (University of Auckland, New Zealand), Gillian Dobbie (University of Auckland, New Zealand), Yun Sung Koh (University of Auckland, New Zealand), and Saeed ur Rehman (Unitec Institute of Technology, New Zealand)

Biologically-Inspired Techniques for Knowledge Discovery and Data Mining exemplifies prestigious research and shares the practices that have allowed areas to grow and flourish. This essential reference publication highlights contemporary findings in the area of biologically-inspired techniques in data mining domains and their implementation in real-life problems. Providing quality work from established researchers, this publication serves to extend existing knowledge within the research communities of data mining and knowledge discovery, as well as for academicians and students in the field.

Data Mining and Analysis in the Engineering Field

Vishal Bhatnagar (Ambedkar Institute of Advanced Communication Technologies and Research, India)

Data Mining and Analysis in the Engineering Field explores current research in data mining, including the important trends and patterns and their impact in fields such as software engineering. With a focus on modern techniques as well as past experiences, this vital reference work will be of greatest use to engineers, researchers, and practitioners in scientific-, engineer-, and business-related fields.

Succession Planning and Implementation in Libraries: Practices and Resources

Kiyomi D. Deards (University of Nebraska-Lincoln, USA) and Gene R. Springs (The Ohio State University, USA)

Succession Planning and Implementation in Libraries: Practices and Resources provides valuable insight into the process of implementing succession planning in libraries. This book delves into the challenges and possibilities of a succession plan's effect on the success of library organizations. Human resources officers, library administrators, academicians, and students will find this book beneficial to furthering their understanding of current practice in succession planning.

Handbook of Research on Cloud Infrastructures for Big Data Analytics

Pethuru Raj (IBM, India) and Ganesh Chandra Deka (Ministry of Labour and Employment, India)

The Handbook of Research on Cloud Infrastructures for Big Data Analytics focuses exclusively on the topic of cloud-sponsored big data analytics for creating flexible and futuristic organizations. This book helps researchers and practitioners, as well as business entrepreneurs, to make informed decisions and consider appropriate action to simplify and streamline the arduous journey towards smarter enterprises.

Library and Information Science Research in Asia-Oceania: Theory and Practice

Jia Tina Du (University of South Australia, Australia), Qinghua Zhu (Nanjing University, China), and Andy Koronios (University of South Australia, Australia)

Library and Information Science Research in Asia-Oceania: Theory and Practice presents evolving and emerging research and development in the field of library and information science (LIS) in diverse countries in Asia-Oceania as the region continues to develop. This book is intended as a useful resource for LIS researchers, scholars, students, professionals, and practitioners, and is an appropriate text for courses in LIS. In addition, anyone interested in understanding the LIS field in the region will find this book a fascinating and enlightening read.

Knowledge Management Practice in Organizations: The View from Inside

Ulla de Stricker (de Stricker Associates, Canada)

Knowledge Management Practice in Organizations: The View from Inside brings together industry experts to discuss the realities of knowledge management work in organizations. Examining the challenges associated with operational knowledge management, this work provides insight into the day-to-day practice of knowledge management in real-life settings. Organizational leaders and professionals, librarians, students, and researchers will find this publication to be an essential tool in understanding knowledge management implementation.
Innovative Techniques and Applications of Entity Resolution
Hongzhi Wang (Harbin Institute of Technology, China)

Innovative Techniques and Applications of Entity Resolution draws upon interdisciplinary research on tools, techniques, and applications of entity resolution. This research work provides a detailed analysis of entity resolution applied to various types of data as well as appropriate techniques and applications and is appropriately designed for students, researchers, information professionals, and system developers.

Authors, Copyright, and Publishing in the Digital Era
Francina Cantatore (Bond University, Australia)

Authors, Copyright, and Publishing in the Digital Era not only addresses the current complexities that arise with authors and copyright laws when publishing digitally, but it also sheds light on the current processes and procedures in place concerning copyright options for digital publishers. This publication addresses a global audience in the manner in which it discusses traditional methods used in publishing before segueing into new model and strategies for both a business and an author in this ever-expanding digital world.

Rural Community Libraries in Africa: Challenges and Impacts
Valeda F. Dent (Long Island University, USA), Geoff Goodman (Long Island University, USA), and Michael Kevane (Santa Clara University, USA)

Rural Community Libraries in Africa: Challenges and Impacts investigates the relationship between local libraries and community development. From the historical roots of rural libraries to their influence on the literacy, economy, and culture of the surrounding region, this book will present academics, researchers, and, most importantly, librarians with crucial insight into the tangible benefits of rural community libraries and the obstacles they must overcome.

Emerging Methods in Predictive Analytics: Risk Management and Decision-Making
William H. Hsu (Kansas State University, USA)

Emerging Methods in Predictive Analytics: Risk Management and Decision Making provides an interdisciplinary approach to predictive analytics; bringing together the fields of business, statistics, and information technology for effective decision making. Managers, business professionals, and decision makers in diverse fields will find the applications and cases presented in this text essential in providing new avenues for risk assessment, management, and predicting the future outcomes of their decisions.

Data Science and Simulation in Transportation Research
Davy Janssens (Hasselt University, Belgium), Ansar-Ul-Haque Yasar (Hasselt University, Belgium), and Luk Knapen (Hasselt University, Belgium)

Data Science and Simulation in Transportation Research highlights entirely new and detailed spatial-temporal micro-simulation methodologies for human mobility and the emerging dynamics of our society. Bringing together novel ideas grounded in big data from various data mining and transportation science sources, this book is an essential tool for professionals, students, educators, researchers, and practitioners of information technology, advancing the ongoing discussion of communication in the digital age.
Knowledge Discovery, Transfer, and Management in the Information Age
Murray E. Jennex (San Diego State University, USA)

Knowledge Discovery, Transfer, and Management in the Information Age brings together the latest empirical research in knowledge management practices and information retrieval strategies to assist organizations in effectively and efficiently utilizing the data at their disposal. Academics, managers, researchers, and professionals within the field of knowledge management will make use of this book to increase their understanding of best practices in the manipulation of information resources.

Harnessing Dynamic Knowledge Principles in the Technology-Driven World
Mark Nissen (Naval Postgraduate School, USA)

Harnessing Dynamic Knowledge Principles in the Technology-Driven World provides actionable principles of Knowledge Flow Theory to identify and solve problems for implementing these principles into practice. With emerging developments and widespread applicability, this book is a practical guide for scholars, business managers, and enterprise leaders and managers interested in understanding the dynamics of knowledge flows for competitive advantage in a technology-driven world.

Technology and Professional Identity of Librarians: The Making of the Cybrarian
Deborah Hicks (University of Alberta, Canada)

Technology and Professional Identity of Librarians: The Making of the Cybrarian brings into focus both the positive and negative aspects that technology places on the professional identity of librarians. Highlighting the new methods involved in data management, communication, and library information education and research; this book is a necessary means for librarians, students, and researchers to obtain an up-to-date understanding of what it means to maintain relevance in the information age.

Information Technology and Collection Management for Library User Environments
Joseph Walker (IT Consultant, USA)

Information Technology and Collection Management for Library User Environments brings into focus the new responsibility libraries have in meeting patron needs, specifically with the use of emerging technologies. Highlighting the concepts of collection management, library space planning, and information technologies; this book is a critical guide for library professionals, para-professionals, as well as researchers who wish to meet the diverse needs of patrons in ever-changing societies.

Emerging Pedagogies in the Networked Knowledge Society: Practices Integrating Social Media and Globalization
Maroohang Limbu (Michigan State University, USA) and Binod Gurung (New Mexico State University, USA)

Emerging Pedagogies in the Networked Knowledge Society: Practices Integrating Social Media and Globalization examines the production, dissemination, and consumption of knowledge within networked communities in the wider global context of pervasive Web 2.0 and social media services. This book will offer insight for business stakeholders, researchers, scholars, and administrators by highlighting the important concepts and ideas of information- and knowledge-based economies.

Progressive Trends in Electronic Resource Management in Libraries
Nihar K. Patra (National Institute of Food Technology Entrepreneurship & Management, India), Bharat Kumar (Management Development Institute, India), and Ashis K. Pani (XLRI, Jamshedpur, India)

Progressive Trends in Electronic Resource Management in Libraries provides relevant theoretical and practical details from an international perspective on the current e-resources landscape. Through a detailed discussion of the specific aspects of e-resources management, this book is a useful source for library science faculty and students, academic librarians, research scholars, and IT professionals aiming to improve their understanding of the theoretical details, history, selection, acquisition, fair use and management of e-resources.
Quality Innovation: Knowledge, Theory, and Practices
Latif Al-Hakim (University of South Queensland, Australia) and Chen Jin (Zhejiang University, China)

Quality Innovation: Knowledge, Theory, and Practices presents a compilation of recent theoretical frameworks, case studies, and empirical research findings in the area of quality innovation. It highlights the theories, strategies, and potential concerns for organizations engaged in change management designed to address stakeholders’ needs. This reference volume serves as a valuable resource for researchers, business professionals, and students in a variety of fields and disciplines.

Cloud Computing and Virtualization Technologies in Libraries
Sangeeta N. Dhamdhere (Modern College of Arts, Science and Commerce, India)

Cloud Computing and Virtualization Technologies in Libraries highlights the concerns and limitations that need addressed in order to optimize the benefits of cloud computing to the virtualization of libraries. Focusing on the latest innovations and technological advancements, this book is essential for professionals, students, and researchers interested in cloud library management and development in different types of information environments.

Revolutionizing the Development of Library and Information Professionals: Planning for the Future
Samantha Schmehl Hines (Missoula College of the University of Montana, USA)

Revolutionizing the Development of Library and Information Professionals: Planning for the Future examines the future of library professional development by investigating the aspects that make these development events worthwhile. This book is essential for library association personnel, educational institutions, and management personnel in large library systems to aid in determining future trends in professional development opportunities for their staff.

Knowledge Management and Competitive Advantage: Issues and Potential Solutions
Michael A. Chilton (Kansas State University, USA) and James M. Bloodgood (Kansas State University, USA)

Knowledge Management and Competitive Advantage: Issues and Potential Solutions examines current research in support of knowledge management by focusing on how knowledge resources can be used to create and sustain competitive advantages. By combining imitation and innovation theories, this book is a vital resource for information system and management professionals, students, and researchers in order to achieve an organization’s competitive advantage.

Big Data Management, Technologies, and Applications
Wen-Chen Hu (University of North Dakota, USA) and Naima Kaabouch (University of North Dakota, USA)

Big Data Management, Technologies, and Applications discusses the exponential growth of information size and the innovative methods for data capture, storage, sharing, and analysis for big data. With its prevalence, this collection of articles on big data methodologies and technologies are beneficial for IT workers, researchers, students, and practitioners in this timely field.

Rethinking the Conceptual Base for New Practical Applications in Information Value and Quality
George Leal Jamil (Universidade Fumec, Brazil), Armando Malheiro (Universidade do Porto, Portugal), and Fernanda Ribeiro (Universidade do Porto, Portugal)

Rethinking the Conceptual Base for New Practical Applications in Information Value and Quality discusses the re-evaluation of the conceptual base of information value and quality found in different forms of media; and how these concepts can be analyzed in real applications and business scenarios. This book is a vital reference source for scholars, practitioners, IT specialists, and students interested in information and knowledge management.

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Cases on Electronic Records and Resource Management Implementation in Diverse Environments

Janice M. Krueger (Clarion University of Pennsylvania, USA)

Cases on Electronic Records and Resource Management Implementation in Diverse Environments brings together real-life examples of how electronic records and resource management have been implemented across disciplines. Offering theories amid legal and ethical concerns of electronic records and resource management, this publication is essential for professionals involved in the education of library and information science and the training of individuals responsible for electronic records management in various disciplines.

Innovative Approaches of Data Visualization and Visual Analytics

Mao Lin Huang (University of Technology, Sydney, Australia) and Weidong Huang (Weidong Huang, CSIRO, Australia)

Innovative Approaches of Data Visualization and Visual Analytics evaluates the latest trends and developments in force-based data visualization techniques, addressing issues in the design, development, evaluation, and application of algorithms and network topologies. This book will benefit professionals and researchers working in the fields of data analysis and information science, as well as students in computer science and computer engineering, to develop increasingly effective methods of knowledge creation, management, and preservation.

Information Access and Library User Needs in Developing Countries

Mohammed Nasser Al-Suqri (Sultan Qaboos University, Oman), Linda L. Lillard (Clarion University, USA), and Naifa Eid Al-Saleem (Sultan Qaboos University, Oman)

Information Access and Library User Needs in Developing Countries highlights the struggles that developing countries face in terms of information gaps and information-seeking user behavior. The publication highlights ways in which users in developing countries can benefit from properly implementing LIS services. Researchers, academics, and practitioners interested in the design and delivery of information services will benefit from this collection of research.

Collaborative Models for Librarian and Teacher Partnerships

Kathryn Kennedy (International Association for K-12 Online Learning, USA) and Lucy Santos Green (Georgia Southern University, USA)

Collaborative Models for Librarian and Teacher Partnerships brings together best practices and innovative technological approaches in establishing the media specialist-teacher partnership. Highlighting theoretical concepts of case based learning, knowledge repositories, and professional learning communities; this book is an essential practical guide for professional development specialists, administrators, library media specialists, as well as teacher educators interested in maintaining and developing collaborative instructional partnerships using emerging digital technologies.

Collaboration in International and Comparative Librarianship

Susmita Chakraborty (University of Calcutta, India) and Anup Kumar Das (Jawaharlal Nehru University, India)

Collaboration in International and Comparative Librarianship highlights the importance of international librarianship in governmental and non-governmental institutions, organizations, and groups in order to promote, develop, and maintain librarianship and the library profession around the world. This publication is essential for graduate students, researchers, teachers, LIS administrators in the field of library science.

Governance, Communication, and Innovation in a Knowledge Intensive Society

Sean Siqueira (Federal University of the State of Rio de Janeiro (UNIRIO), Brazil)

Governance, Communication, and Innovation in a Knowledge Intensive Society gathers the current research on knowledge management in governments, organizations, and institutions, and presents a compilation useful to academics, professionals, politicians, and policy makers invested in knowledge-intensive societies. This book investigates the impact of knowledge and information technologies on fields as diverse as education, culture, science, and business in order to provide an effective framework for effectively navigating the nuances of an information-pervasive world.
Library Reference Services and Information Literacy: Models for Academic Institutions
Rosanne M. Cordell
(Indiana University South Bend, USA)

Library Reference Services and Information Literacy: Models for Academic Institutions not only advocates for a more intentional integration of reference and instructional services, but it also provides organizational background, staff objectives, and various successes and challenges that have already been experienced by real institutions. This publication is an important reference source for librarians, practitioners, and university leaders who wish to maximize the current utilize of their resources.

Multidisciplinary Studies in Knowledge and Systems Science
Guangfei Yang (Dalian University of Technology, China)

Multidisciplinary Studies in Knowledge and Systems Science brings together valuable research on the adoption of a systems approach to the theory and practice of managing information and people in knowledge intensive activities and processes. By emphasizing the understanding of technical, social, and philosophical frameworks, this book is essential for academics, practitioners, and students interested in the developments of human knowledge processes.

Information Retrieval Methods for Multidisciplinary Applications
Zhongyu (Joan) Lu (University of Huddersfield, UK)

Information Retrieval Methods for Multidisciplinary Applications provides innovative research on information gathering, web data mining, and automation systems. Addressing multidisciplinary applications and focusing on theories and methods with an enterprise-wide perspective, this book is essential for information engineers, scientists, and related professionals.

Advancing Research Methods with New Technologies
Natalie Sappleton
(Manchester Metropolitan University, UK)

Advancing Research Methods with New Technologies examines the applicability and usefulness of new technologies, as well as the pitfalls of these methods in academic research practices. This book serves as a practical guide for designing and conducting research projects for scientists all of disciplines ranging from graduate students to professors and practitioners.

Challenges of Academic Library Management in Developing Countries
S. Thanuskodi (Alagappa University, India)

Challenges of Academic Library Management in Developing Countries provides the latest theoretical frameworks and empirical research into academic libraries, investigating concerns such as illiteracy, budgeting, software development, technical training, and others. In particular, this book will be of use to professionals and researchers working in the field of library and information science who are looking for new methods and best practices in the management of effective academic libraries. This book is part of the Advances in Library and Information Science series collection.

Robots in Academic Libraries: Advancements in Library Automation
Edward Iglesias
(Central Connecticut State University, USA)

Robots in Academic Libraries: Advancements in Library Automation provides an overview on the current state of library automation, addresses the need for changing personnel to accommodate these changes, and assesses the future for academic libraries as a whole. This book is essential for library leaders, technology experts, and library vendors interested in the future of library automation and its impact on the decline of human interaction in libraries.

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Managing Information Resources and Technology: Emerging Applications and Theories

Mehdi Khosrow-Pour (Information Resources Management Association, USA)

Managing Information Resources and Technology: Emerging Applications and Theories highlights the rising trends and studies in the information technology field. Each chapter offers interesting perspectives on common problems as well as suggestions for future improvement. Professionals, researchers, scholars, and students will gain deeper insight into this area of study with this comprehensive collection.

Cases on Emerging Information Technology Research and Applications

Mehdi Khosrow-Pour (Information Resources Management Association, USA)

Cases on Emerging Information Technology Research and Applications strategically combines the latest studies encompassing the most current advancements in the IT arenas. This compilation of cases highlights relevant information for professionals, researchers, and students wishing to remain current with the ever-changing IT field.

Interdisciplinary Advances in Information Technology Research

Mehdi Khosrow-Pour (Information Resources Management Association, USA)

Interdisciplinary Advances in Information Technology Research explores multiple fields and the research done as well as how they differentiate and relate to one another. This collection provides focused discussions from unique perspectives on the latest information technology research. Researchers, practitioners, and professionals will benefit from this publication’s broad perspective.

Intellectual Capital Strategy Management for Knowledge-Based Organizations

Patricia Ordóñez de Pablos (University of Oviedo, Spain), Robert D. Tennyson (University of Minnesota, USA), and Jingyuan Zhao (University of Québec at Montréal, Canada)

Intellectual Capital Strategy Management for Knowledge-Based Organizations brings together new perspectives on the knowledge-based view of strategy management as it considers the role of companies, organizations, and nations in the storage and measurement of their knowledge. This book is useful for industry leaders, practitioners, academics and scholars interested in emerging aspects of knowledge management and industry services.

Modern Library Technologies for Data Storage, Retrieval, and Use

Chia-Hung Wei (Chung Yung University, Taiwan) and Chih-Ying Gwo (Hsin University of Science and Technology, Taiwan)

Modern Library Technologies for Data Storage, Retrieval, and Use highlights new features of digital library technology in order to educate the database community. By contributing research from case studies on the emerging technology use in libraries, this book is essential for academics and scientists interested in the efforts to understand the applications of data acquisition, retrieval and storage.

Recent Developments in the Design, Construction, and Evaluation of Digital Libraries: Case Studies

Colleen Cool (Queens College, City University of New York, USA) and Kwong bor Ng (Queens College, City University of New York, USA)

Recent Developments in the Design, Construction, and Evaluation of Digital Libraries not only addresses the challenges with digital libraries, but it also describes the recent developments in the design, construction, and evaluation of these libraries in various environments. This leading publication compiles research from a wide array of specialists into a unified and comprehensive manner. Librarians, researchers, scholars, and professionals in this field will find the reference source beneficial in order to deepen their understanding of this continually growing field.
Strategic Adoption of Technological Innovations
Caroline Howard (HC Consulting, USA)
Strategic Adoption of Technological Innovations brings together research from practitioners on the development, use, and importance of information technology in order to achieve organizational performance. This comprehensive collection is useful for academicians, scholars, researchers and other industry professionals to provide an understanding of strategy and use of information systems in organizations and entities.

Using Social and Information Technologies for Disaster and Crisis Management
Murray E. Jennex (San Diego State University, USA)
Using Social and Information Technologies for Disaster and Crisis Management highlights examples of disaster situations in recent years in which social and information technologies were useful in distributing and receiving information updates. This comprehensive collection brings together research for practitioners and researchers interested in the uses of information technology in crisis management.

Dictionary of Information Science and Technology (2 Vols.)
Mehdi Khosrow-Pour (Information Resources Management Association, USA)
The 2nd edition of the Dictionary of Information Science and Technology is a compilation of the latest terms and definitions as they pertain to all aspects of the information and technology field. This collection of terms and acronyms in the ever changing world of information science and technology keeps researchers, practitioners, educators and student with current knowledge of key scientific and technical words.

Enhancing the Modern Organization through Information Technology Professionals: Research, Studies, and Techniques
Ricardo Colomo-Palacios (Universidad Carlos III de Madrid, Spain)
Enhancing the Modern Organization through Information Technology Professionals: Research, Studies, and Techniques presents research from the perspective of the information technology professional and its influence on enhancing the modern organization. This comprehensive collection will play a vital role with practitioners and academics by offering the best practices, methodologies and research in the field of IT management.

Management Theories and Strategic Practices for Decision Making
Madjid Tavana (La Salle University, USA)
Management Theories and Strategic Practices for Decision Making brings together a collection of research aiming to provide communication for the management of new methodologies to solve strategic problems and applying decision making approaches. This reference is useful for government agencies, practicing managers, academic and research institutions interested in bringing together strategic decision-making and decision sciences.
Dynamic Models for Knowledge-Driven Organizations

Murray E. Jennex (San Diego State University, USA)

**Dynamic Models for Knowledge-Driven Organizations** presents a widespread collection of research on the understanding of the managerial, technical, and human issues associated with the use of knowledge in organizations while bearing in mind the design, development, and maintenance of useful knowledge management systems. This reference is essential for the tools and information needed to effectively implement knowledge management systems and would benefit researchers and practitioners alike.

Information Systems Research and Exploring Social Artifacts: Approaches and Methodologies

Pedro Isaias (Portuguese Open University, Portugal) and Miguel Baptista Nunes (University of Sheffield, United Kingdom)

**Information Systems Research and Exploring Social Artifacts: Approaches and Methodologies** discusses the approaches and methodologies currently being used in the field on information systems. This reference source covers a wide variety of socio-technical aspects of the design of IS artifacts as well as the study of their use. This book aims to be useful for researchers, scholars, and students interested in expanding their knowledge on the assortment of research on information systems.

Design, Development, and Management of Resources for Digital Library Services

Tariq Ashraf (University of Delhi, India) and Puja Anand Gulati (University of Delhi, India)

**Design, Development, and Management of Resources for Digital Library Services** offers a global perspective on the development and design of digital library and highlights its benefits over a traditional library. This reference source brings together research and ideas on the different facets of a digital library that are crucial for professional librarians, computer scientists as well as scholars interested in the impact of information technologies on society and the changing nature of libraries.

Applying Principles from IT Architecture to Strategic Business Planning

James McKee (Independent Researcher, Australia)

**Applying Principles from IT Architecture to Strategic Business Planning** describes the principles of IT architecture to develop the creation of an information model of business strategic requirements. Highlighting the importance of organizational goals within a business, this book is an essential read for employees on a managerial and executive level who are involved in the organizational development of a company.

Digital Rights Management: Concepts, Methodologies, Tools, and Applications (4 Vols.)

Information Resources Management Association (USA)

**Digital Rights Management: Concepts, Methodologies, Tools, and Applications** is a comprehensive volume of recent case studies, theories, research on digital rights management, and its place in the world today. Its widespread research fields and areas of expertise serve as a reference source for practitioners and academics alike.

Online Instruments, Data Collection, and Electronic Measurements: Organizational Advancements

Mihai C. Bocarnea (Regent University, USA), Rodney A. Reynolds (California Lutheran University, USA), and Jason D. Baker (Regent University, USA)

**Online Instruments, Data Collection, and Electronic Measurements: Organizational Advancements** aims to assist researchers in both understanding and utilizing online data collection by providing methodological knowledge related to online research, and by presenting information about the empirical quality, the availability, and the location of specific online instruments. This book provides a strong focus on organizational leadership instruments while combining them with practical and ethical issues associated with online data collection. Such a combination makes this a unique contribution to the field.
Topics in ontology use for these application areas.

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Ontology-Based Applications for Enterprise Systems and Knowledge Management

Mohammad Nazir Ahmad (Universiti Teknologi Malaysia, Malaysia), Robert M. Colomb (University of Queensland, Australia), and Mohd Syazwan Abdullah (Universiti Utara Malaysia, Malaysia)

Ontology-Based Applications for Enterprise Systems and Knowledge Management provides an opportunity for readers to clearly understand the notion of ontology engineering and the practical aspects of this approach in the domains of two interest areas: Knowledge Management Systems and Enterprise Systems. A perfect reference for researchers, scholars, postgraduate students, and practitioners, this book aims to gather the recent advances and research findings of various topics in ontology use for these application areas.

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Intelligence Methods and Systems Advancements for Knowledge-Based Business

John Wang (Montclair State University, USA)

Intelligence Methods and Systems Advancements for Knowledge-Based Business examines state-of-the-art research in decision sciences and business intelligence, and the applications of knowledge-based business with information systems. This comprehensive volume will provide researchers, academics, and business professionals with the research and inspiration they need to strengthen and empower their businesses in today’s world.

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Library Automation and OPAC 2.0: Information Access and Services in the 2.0 Landscape

Jesus Tramullas (University of Zaragoza, Spain) and Piedad Garrido (University of Zaragoza, Spain)

Library Automation and OPAC 2.0: Information Access and Services in the 2.0 Landscape brings library automation back to the forefront of cutting-edge research. In today’s age of Web 2.0 and social networking, libraries are entering the new Library 2.0 era, and this reference will present current and future librarians with the necessary new library automation research they will need to keep their institutions up-to-date in today’s constantly changing technological environment.

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Library Collection Development for Professional Programs: Trends and Best Practices
Sara Holder (McGill University, Canada)

Library Collection Development for Professional Programs: Trends and Best Practices addresses the challenging task of collection development in modern academic libraries, which is largely learned on the job. This publication contains practical advice and innovative strategies and will therefore be essential for current collection development librarians and future librarians seeking guidance in this complex position.

Integrated and Strategic Advancements in Decision Making Support Systems
Pascale Zarate (Toulouse University, France)


Managing Dynamic Technology-Oriented Businesses: High-Tech Organizations and Workplaces
Dariusz Jemielniak (Kozminski University, Poland) and Abigail Marks (Heriot-Watt University, UK)

Managing Dynamic Technology-Oriented Businesses: High-Tech Organizations and Workplaces explores the culture of modern high-tech workplaces and the different challenges and opportunities that new technologies present for modern workers and employers. This pivotal reference will delve deep into management practices throughout the world, including American, European, Asian, and Middle-Eastern high-tech companies.

Planning and Implementing Resource Discovery Tools in Academic Libraries
Mary Pagliero Popp (Indiana University, USA) and Diane Dallis (Indiana University, USA)

Planning and Implementing Resource Discovery Tools in Academic Libraries addresses the many new resource discovery tools and products in existence as well as their potential uses and applications. This timely publication will be invaluable to librarians and administrators seeking information on how to evaluate, choose, and ultimately implement a resource discover product for their library’s collection.

Leveraging Developing Economies with the Use of Information Technology: Trends and Tools
Abel Usoro (University of the West of Scotland, UK), Grzegorz Majewski (University of the West of Scotland, UK), Princely Ifinedo (Cape Breton University, Canada), and Iwara Arinko (University of Calabar, Nigeria)

Leveraging Developing Economies with the Use of Information Technology: Trends and Tools moves toward filling the gap in research on ICT and developing nations, bringing these countries one step closer to advancement through technology. This essential publication will bring together ideas, views, and perspectives helpful to government officials, business professionals, and other individuals worldwide as they consider the use of ICT for socio-economic progress in the developing world.

Perspectives and Implications for the Development of Information Infrastructures
Panos Constantinides (Frederick University, Cyprus)

Perspectives and Implications for the Development of Information Infrastructures aims at addressing this need by offering a fresh new perspective on information infrastructure development. It achieves this by drawing on and adapting theory that was initially developed to study natural resource commons arrangements such as inshore fisheries, forests, irrigation systems, and pastures, while placing great emphasis on the complex problems and social dilemmas that often arise in the negotiations.
Systems Approach Applications for Developments in Information Technology

Frank Stowell (University of Portsmouth, UK)

Systems Approach Applications for Developments in Information Technology addresses the essential need to look at systems as a complete unit through using systems approach in the field of IT. This complete reference is designed for all information technology professionals to better understand their current jobs and future goals through the pivotal idea of systems approach as applied in software engineering, systems engineering, and complex systems.

Project Management Techniques and Innovations in Information Technology

John Wang (Montclair State University, USA)

Project Management Techniques and Innovations in Information Technology offers a vital compendium of the latest research, case studies, best practices, and methodologies within the field of IT project management. By collecting research from top experts around the world in a variety of IT project management applications and job sectors, this volume will serve as a critical reference manual and research guide for both practitioners and academics alike.

Current Trends and Future Practices for Digital Literacy and Competence

Antonio Cartelli (University of Cassino and Southern Lazio, Italy)

Current Trends and Future Practices for Digital Literacy and Competence offers a look at the latest research within digital literacy and competence, setting the bar for the digital citizen of today and tomorrow. Presented in the form of case studies, frameworks, methodologies, architectures, and research, this compendium offers a vital resource for practitioners and academics in any field looking to stay up-to-date on their digital literacy. Chapters range from technically fundamental to the layman to complex, from experts around the world in a variety of jobs and countries.

Knowledge Management and Drivers of Innovation in Services Industries

Patricia Ordoñez de Pablos (University of Oviedo, Spain) and Miltiadis D. Lytras (The American College of Greece, Greece)

Knowledge Management and Drivers of Innovation in Services Industries provides a comprehensive collection of knowledge from experts within the Information and Knowledge Management field. Outlining areas on Knowledge Management, Innovation, Information Technologies, and Systems, and Services Industry, this book provides insight for academic professors, policymakers, and students alike.

Multimedia Storage and Retrieval Innovations for Digital Library Systems

Chia-Hung Wei (Ching Yun University, Taiwan), Yue Li (Nankai University, China), and Chih-Ying Gwo (Ching Yun University, Taiwan)

Multimedia Storage and Retrieval Innovations for Digital Library Systems offers the latest research on retrieval and storage methods for digital library systems, a burgeoning field of data sourcing. In order to stay abreast of the latest terminology, case studies, frameworks, architectures, methodologies, and research within the field of digital libraries, it is crucial to keep up with the latest literature. The information in this compendium comes from contributing authors and experts around the world, making it a one of a kind addition to any research library.

Virtual Work and Human Interaction Research

Shawn Long (University of North Carolina Charlotte, USA)

Virtual Work and Human Interaction Research uses humanistic and social scientific inquiry from interdisciplinary and international perspectives to explore how individuals engage in the new virtual work paradigm. This book explores a wide range of topics including, but not limited to, boundary management in virtual work, shadowing virtual work practices, creative workers’ attitudes in virtual work, high-touch interactivity in virtual experiences, surveys, interviews experimental, ethnography grounded-theory, and phenomenology in virtual work contexts.
Remote Access Technologies for Library Collections: Tools for Library Users and Managers

Diane M. Fulkerson
(University of South Florida Polytechnic Library, USA)

Remote Access Technologies for Library Collections: Tools for Library Users and Managers is crucial to understanding these changes and the new expectations that library users have in the 21st century. Identifying, implementing and updating new technologies, understanding copyright and fair use laws, creating metadata for access to digital collections, and meeting user needs are just some of the topics covered in this volume. Libraries have become the electronic information commons of the new information age and this reference provides a vital exploration of the future, which is now.

Design-Type Research in Information Systems: Findings and Practices

Rustam Vahidov
(Concordia University, Canada)

Design-Type Research in Information Systems: Findings and Practices aims to demonstrate that Design-Type Research is a legitimate scientific activity, particularly in the context of the field of Information Systems. Contending that the philosophy, methodology and principles of traditional science also apply to design-type of science, the research contained within this book is important to the widespread acceptance and promotion of design-type research.

Technical Writing, Presentational Skills, and Online Communication: Professional Tools and Insights

Raymond Greenlaw
(United States Naval Academy, USA)

Technical Writing, Presentational Skills, and Online Communication: Professional Tools and Insights is a collection of work aimed for any profession who needs to deal with ethical issues, write up a technical project, give or develop a presentation, or write material for an online audience. While focusing on practical information and process, the goal is to improve the reader’s ability and knowledge in each of these four areas. This book presents the big picture relating to the chosen topics so the audience will have an excellent framework and foundation in the areas of professional ethics, technical writing, presentation skills, and online writing.

Managing Crises and Disasters with Emerging Technologies: Advancements

Murray E. Jennex
(San Diego State University, USA)

Managing Crises and Disasters with Emerging Technologies: Advancements offers the most vital, up-to-date research within the field of disaster management technologies. Since the first disaster information network was set up nearly fifteen years ago, information technologies have advanced at an exponential rate, allowing those managing emergencies, crises, and disasters to effectively manage and utilize data in a safe, efficient way. This collection includes research and updates from authors from around the world, with a variety of perspectives and insights into the most cutting edge technology the field has to offer.

Phenomenology, Organizational Politics, and IT Design: The Social Study of Information Systems

Gianluigi Viscusi
(University of Milan Bicocca, Italy), Gian Marco Campagnolo
(University of Edinburgh, UK), and Ylenia Curzi
(University of Modena and Reggio Emilia, Italy)

Phenomenology, Organizational Politics, and IT Design: The Social Study of Information Systems offers a new look at the latest research and critical issues within the field of information systems by creating solid theoretical frameworks and the latest empirical findings of social developments. Professionals, academics, and researchers working with information will find this volume a compelling and vital resource for a cross fertilization among different, yet complementary and strictly connected domains of scientific knowledge, consisting of information systems research, philosophy of social science, and organizational studies.

Research Methodologies, Innovations and Philosophies in Software Systems Engineering and Information Systems

Manuel Mora
(Autonomous University of Aguascalientes, Mexico), Ovsei Gelman
(University Nacional Autónoma de México, Mexico), Annette Steenkamp
(Lawrence Technological University, USA), and Mahesh S. Raisinghani
(The University of Texas at Dallas, USA)

Research Methodologies, Innovations and Philosophies in Software Systems Engineering and Information Systems aims to advance scientific knowledge on research approaches used in systems engineering, software engineering, and information systems and to update and integrate disperse and valuable knowledge on research approaches. This aims to be a collection of knowledge for PhD students, research-oriented faculty, and instructors of graduate courses.
Semi-Automatic Ontology Development: Processes and Resources

Maria Teresa Pazienza (University of Roma Tor Vergata, Italy) and Armando Stelliato (University of Roma Tor Vergata, Italy)

Semi-Automatic Ontology Development: Processes and Resources includes state-of-the-art research results aimed at the automation of ontology development processes and the reuse of external resources becoming a reality, thus being of interest for a wide and diversified community of users. This book provides a thorough overview on the current efforts on this subject and suggests common directions for interested researchers and practitioners.

Conceptual Models and Outcomes of Advancing Knowledge Management: New Technologies

Murray E. Jennex (San Diego State University, USA)

Conceptual Models and Outcomes of Advancing Knowledge Management: New Technologies discusses theory and practice in the design of knowledge management systems, facilitation of knowledge sharing, and creation of practices that encourage organizational learning. With a focus on all aspects of knowledge management research, this book is a valuable resource for organizations aiming to improve performance as well as researchers seeking to develop conceptual models and frameworks for further inquiry.

Online Research Methods in Urban and Planning Studies: Design and Outcomes

Carlos Nunes Silva (University of Lisbon, Portugal)

Online Research Methods in Urban and Planning Studies: Design and Outcomes provides an overview of online research methods in urban and planning studies, exploring and discussing new digital tools and Web-based research methods, as well as the scholarly, legal, and ethical challenges associated with their use. Chapters from academics and professionals give an informed overview of groundbreaking online resources, review their strengths and shortcomings, and provide practical guidance on how to apply these new methods, online tools, and evolving data acquisition techniques.

Partnerships and Collaborations in Public Library Communities: Resources and Solutions

Karen Ellis (Taylor Public Library, USA)

Partnerships and Collaborations in Public Library Communities: Resources and Solutions shows how these partnerships can be cultivated through projects, programming, funding, and extending the library’s presence through unique avenues. With a diverse set of contributions from state, local, educational, penal, and governmental libraries that actively pursue community involvement in a myriad of ways and through varying levels of commitment, the examples presented in this book will give librarians a better understanding of what might be possible for their unique requirements and limitations. This publication focuses on practical applications such as navigating an era of budget cuts and sparse resources to post-project analysis of programs that did not work effectively alongside success stories and ideas for the future.

Privacy Protection Measures and Technologies in Business Organizations: Aspects and Standards

George O.M. Yee (Aptus Research Solutions Inc. and Carleton University, Canada)

Privacy Protection Measures and Technologies in Business Organizations: Aspects and Standards is a collection of research on privacy protection technologies and their application in business organizations. Providing insights and support professionals concerned with the management of expertise, knowledge, information, and organizational development in different types of business organizations and environments. This book will be composed of professionals and researchers working in the field of privacy protection in various disciplines.

Instructional Technology Research, Design and Development: Lessons from the Field

Nor Aziah Alias (University Teknologi Mara, Malaysia) and Sulaiman Hashim (Aminudin Baki Institute, Malaysia)

Instructional Technology Research, Design and Development: Lessons from the Field is a practical text on design and development research in the field of instructional technology. This book gives readers an overview of design and development research and how it is conducted in different contexts and for various purposes. Further, this reference source provides readers with practical knowledge on design and development research gained through investigation of lessons learned in the field.
Library and Information Science in Developing Countries: Contemporary Issues
A. Tella (University of Ilorin, Nigeria) and A.O. Issa (University of Ilorin, Nigeria)

Library and Information Science in Developing Countries: Contemporary Issues explores the relationship between global technology development and the impact of new technologies on library practice, library education, and information science. Book chapters and case studies in this work provide insight to and support for practitioners and executives concerned with the management of knowledge, information, and organizational development in different types of work environments and learning communities.

Open Innovation in Firms and Public Administrations: Technologies for Value Creation
Carmen de Pablo Hereder (Rey Juan Carlos University, Spain) and David López (I.E Business School, Spain)

Open Innovation in Firms and Public Administrations: Technologies for Value Creation analyzes open innovation in a global context and proposes business models and institutional actors that promote the development of open innovation in firms, institutions, and public administrations worldwide. This book provides insights and supports executives concerned with the management of open innovation and organizational development in different types of open innovation communities and environments.

Emilia Curras (Autonomous University Madrid, Spain) and Nuria Lloret Romero (Universitat Politècnica de Valencia, Spain)

Systems Science and Collaborative Information Systems: Theories, Practices and New Research examines the impact of new information services on day-to-day activities from a range of contemporary technical and socio-cultural perspectives. This collection also creates a sound theoretical basis for information systems and new research opportunities in the field.

E-Reference Context and Discoverability in Libraries: Issues and Concepts
Sue Polanka (Wright State University, USA)

E-Reference Context and Discoverability in Libraries: Issues and Concepts consists of over 20 informative chapters by librarians, publishers, and other industry professionals that propose new ideas for reinventing reference collections and interfaces to fit the needs of today’s researchers. The chapters examine the issues of reference context and discoverability in school, public, and academic libraries as well as within the reference publishing community. Librarians, publishers, and those studying library and information science are the book’s primary audience, but others in the information industry, particularly those with an interest in reference, will find significant value here as well.

Knowledge Management 2.0: Organizational Models and Enterprise Strategies
Imed Boughzala (Institut Telecom, France) and Aurelie Dudezert (Ecole Centrale Paris, France)

Knowledge Management 2.0: Organizational Models and Enterprise Strategies provides an overview of theoretical and empirical research on knowledge management generation in the Web 2.0 age. Research in this book highlights knowledge management evolution with a global focus and investigates the impact knowledge management 2.0 has on business models, enterprise governance and strategies, human resources, and IT design, implementation, and appropriation in organizations.

Technological, Managerial and Organizational Core Competencies: Dynamic Innovation and Sustainable Development
Farley Simon Nobre (Federal University of Parana, Brazil), David Walker (University of Birmingham, UK), and Robert J. Harris (The University of Wolverhampton Business School, UK)

Technological, Managerial and Organizational Core Competencies: Dynamic Innovation and Sustainable Development investigates the impact of knowledge management, information systems, finance, organizational networks, internationalization, strategic management, marketing, entrepreneurship, and sustainability on an organization that pursues dynamic innovation and sustainable advantage. This book provides research and practice for graduate and undergraduate programs as well business firms with different technological, managerial, and organizational perspectives.
Customer-Centric Knowledge Management: Concepts and Applications

Minwir Mallouh Al-Shammari (University of Bahrain, Bahrain)

Customer-Centric Knowledge Management: Concepts and Applications is a comprehensive collection addressing managerial and technical aspects of customer-centric knowledge implementation. It seeks to expand the literature and business practices and contributes to the dynamic and emerging fields of organizational knowledge management, customer relationship management, and information and communication technologies (ICTs).

Organizational Learning and Knowledge: Concepts, Methodologies, Tools and Applications (4 Vols.)

Information Resources Management Association (USA)

Organizational Learning and Knowledge: Concepts, Methodologies, Tools and Applications demonstrates solutions, and techniques applied to the science of recording, categorizing, using and learning from the experiences and expertise acquired by the modern organization. A much needed collection, this multi-volume reference presents the theoretical foundations, research results, practical case studies, and future trends to inform the decisions facing today's organizations and establish fruitful organizational practices for the future. Practitioners, researchers, and academics involved in leading organizations of all types will find useful, grounded resources for navigating the ever-changing organizational landscape.

Crisis Response and Management and Emerging Information Systems: Critical Applications

Murray E. Jennex (San Diego State University, USA)

Crisis Response and Management and Emerging Information Systems: Critical Applications provides a comprehensive, cross-disciplinary look at the advancing and understanding of organizational, technical, human, and cognitive issues associated with the use of information systems in responding and managing crises of all kinds. This book presents the issues that drive the technologies, processes, methodologies, techniques, and practices used to implement information systems in a variety of ways and in the multi-faceted modern environment that we find ourselves in today. The advancement of these critical applications will benefit from this publication as it provides valuable information for future crisis situations.

Global Aspects and Cultural Perspectives on Knowledge Management: Emerging Dimensions

Murray E. Jennex (San Diego State University, USA)

Global Aspects and Cultural Perspectives on Knowledge Management: Emerging Dimensions presents new technologies, approaches, issues, solutions, and cases that can help an organization implement a knowledge management (KM) initiative or provide a knowledge base for the practitioner/academic researcher. This book presents the issues that drive the technologies, processes, methodologies, techniques, and practices used to implement KM in a variety of ways and in the multi-faceted modern environment that we find ourselves in today.

Business Organizations and Collaborative Web: Practices, Strategies and Patterns

Kamna Malik (U2 Global, India) and Praveen Choudhary (HCL Technologies, India)

Business Organizations and Collaborative Web: Practices, Strategies and Patterns delves deeper into identifying specific business processes and their linkage with the collaborative Web, while understanding the related implications for individuals, organizations and society. This book identifies current practices and future possibilities of making the collaborative Web a tool for business. It also presents the opportunities and challenges confronting organizations in the light of such emerging trends and should prove to be a valuable asset to strategists, managers, academicians, researchers, and students in any area of business and management.
Handbook of Research on Communities of Practice for Organizational Management and Networking: Methodologies for Competitive Advantage
Olga Rivera Hernández (University of Deusto, Spain) and Eduardo Bueno Campos (University of Madrid, Spain)

The Handbook of Research on Communities of Practice for Organizational Management and Networking: Methodologies for Competitive Advantage provides a sound understanding of the managerial implications of communities of practice as well as their opportunities and limits for knowledge management. A defining body of research, this collection of international findings fosters innovation within management and assists organizations in the improvement of performance.

Implementing New Business Models in For-Profit and Non-Profit Organizations: Technologies and Applications
Te Fu Chen (Lungwha University of Science and Technology, Taiwan)

Implementing New Business Models in For-Profit and Non-Profit Organizations: Technologies and Applications provides relevant theoretical frameworks and the latest empirical research findings on a new platform of business models and then explores the relationship between the new Business 2.0 alliance and Web 2.0.

Cases on ICT Utilization, Practice and Solutions: Tools for Managing Day-to-Day Issues
Mubarak S. Al-Mutairi (Hafr Al-Batin Community College, Saudi Arabia) and Lawan Ahmed Mohammed (Hafr Al-Batin Community College, Saudi Arabia)

Cases on ICT Utilization, Practice and Solutions: Tools for Managing Day-to-Day Issues presents past, present and future research directions within the field. This book includes cases on the latest advances in Information Communication Technology. The authors have provided in-depth insight into the current state of research in ICT as well as identified successful approaches, tools and methodologies in ICT research. They explore points of good practices, while addressing potential pitfalls to avoid, and examining and evaluating solutions to some of ICT researchers' toughest challenges.

Managing Knowledge Assets and Business Value Creation in Organizations: Measures and Dynamics
Giovanni Schiuma (University of Basilicata, Italy)

Managing Knowledge Assets and Business Value Creation in Organizations: Measures and Dynamics provides an advanced, state-of-the-art understanding of the links between the knowledge assets dynamics and the business value creation. This publication focuses on the theory, models, approaches, methodologies, tools and techniques for measuring and managing organizational knowledge assets dynamics supporting and driving business performance improvements. This comprehensive work is a substantial contribution to the field in terms of theory, methodology and applications to replicate, support and challenge existing studies and offer new applications of existing theory and approaches.

Enterprise IT Governance, Business Value and Performance Measurement
Nan Si Shi (University of South Australia, Australia) and Gilbert Silvius (HU University of Applied Sciences Utrecht, The Netherlands & Van Aetsveld, The Netherlands)

Enterprise IT Governance, Business Value and Performance Measurement reports on high-level academic research outcomes, providing evidence-based insight into the management and contribution of IT within organizations. It also offers practical insights, models, and tools that are instrumental in gaining business value from IT. With contributions from 35 international professionals, this valuable reference appeals to both academic and practitioners in the field of IT management and business and IT alignment.

E-Publishing and Digital Libraries: Legal and Organizational Issues
Ioannis Iglezakis (Aristotle University of Thessaloniki, Greece), Tatiana-Eleni Synodinou (University of Cyprus, Greece), and Sarantos Kapidakis (Ionion University of Greece, Greece)

E-Publishing and Digital Libraries: Legal and Organizational Issues provides a comprehensive overview of the organizational and legal issues concerning digital libraries. It includes 24 contributions from world-renowned specialists in digital libraries. This premier reference source is a must-have for researchers and professionals in the field of ICTs and its various disciplines, including library, education, computer science and management, as well as experts in the field of law.
Different tools and technologies to support it.

Innovation may be useful and the role of knowledge and trends surrounding this implementation.

Organizational and Marketing Innovation: Tools and Methods

Organizational and Marketing Innovation: Tools and Methods outlines different tools and technologies that can be applied depending on the type of innovation an organization desires. It provides concrete advice on the different types of innovation, situations in which innovation may be useful and the role of knowledge and different tools and technologies to support it.

Ethical Issues and Social Dilemmas in Knowledge Management: Organizational Innovation

Ethical Issues and Social Dilemmas in Knowledge Management: Organizational Innovation considers these dilemmas at two levels: the individual vs. individual and the individual vs. the collective, providing a thorough treatment of these facets. This book demonstrates the philosophical underpinnings of each dimension of knowledge management, exposing the ethical and social dilemmas that occur. It also links knowledge management and organizational innovation and proposes and explores strategies to minimize such dilemmas. This book clearly illustrates a whole new perspective on knowledge management, as well as expanding the literature treating this approach.

Knowledge Management for Process, Organizational and Marketing Innovation: Tools and Methods

Knowledge Management for Process, Organizational and Marketing Innovation: Tools and Methods provides a thorough treatment of these facets. This book clearly illustrates a whole new perspective on knowledge management, as well as expanding the literature treating this approach.

Knowledge Management in Emerging Economies: Social, Organizational and Cultural Implementation

Knowledge Management in Emerging Economies: Social, Organizational and Cultural Implementation seeks focuses on knowledge management theoretical models and empirical research findings for developing economies. This book specifically seeks to understand the social, organizational, and cultural implementation aspects of knowledge management in the context of developing economies, and to discuss issues, challenges, and trends surrounding this implementation.

Innovative Knowledge Management: Concepts for Organizational Creativity and Collaborative Design

Innovative Knowledge Management: Concepts for Organizational Creativity and Collaborative Design provides a valuable resource for promoting current academic discourse on innovation in knowledge-intensive organizations and contexts. A defining collection of field advancements, this Premier Reference Source creatively showcases wide-ranging issues relevant to the use of knowledge management.

Strategies for Knowledge Management Success: Exploring Organizational Efficacy

Strategies for Knowledge Management Success: Exploring Organizational Efficacy collects key research articles focused on identifying, defining, and measuring accomplishment in knowledge management.
Encyclopedia of Knowledge Management, Second Edition (2 Vols.)
David G. Schwartz (Bar-Ilan University, Israel) and Dov Te’eni (Tel-Aviv University, Israel)

The Encyclopedia of Knowledge Management, Second Edition provides a compendium of terms, definitions and explanations of concepts, processes and acronyms addressing the challenges of knowledge management. This two-volume collection covers all aspects of this critical discipline, which range from knowledge identification and representation, to the impact of Knowledge Management Systems on organizational culture, to the significant integration and cost issues being faced by Human Resources, MIS/IT, and production departments.

Business Intelligence in Economic Forecasting: Technologies and Techniques
Jue Wang (Chinese Academy of Science, China) and Shouyang Wang (Chinese Academy of Science, China)

Business Intelligence in Economic Forecasting: Technologies and Techniques discusses various Business Intelligence techniques including neural networks, support vector machine, genetic programming, clustering analysis, TEI@I, fuzzy systems, text mining, and many more. This publication serves as a valuable reference for professionals and researchers interested in BI technologies and their practical applications in economic forecasting, as well as policy makers in business organizations and governments.

E-Strategies for Resource Management Systems: Planning and Implementation
Eshaa Alkhalifa (University of Bahrain, Bahrain)

E-Strategies for Resource Management Systems: Planning and Implementation offers insight into current research practices and trends in information resource management strategies that can be implemented electronically. This reference describes new tools and technologies that have the potential to optimize business practices and presents descriptions of issues that arise when implementing a paperless office.

Handbook of Research on Trends in Product Design and Development: Technological and Organizational Perspectives
Arlindo Silva (Instituto Superior Technico, Portugal) et al.

The Handbook of Research on Trends in Product Design and Development: Technological and Organizational Perspectives provides a snapshot of the current issues, trends, challenges, and future perspectives of product design and development, which is an area of growing interest and increasingly recognized importance for industrial competitiveness and economic growth. Product design and development is affecting not only industry, but society in general, as new and innovative products shape our way of life. This handbook is unique in that it explores product design and development not only from a technological standpoint, but from a sociological perspective, as well. It includes contributions from 58 experts in 15 countries.

Intellectual Capital and Technological Innovation: Knowledge-Based Theory and Practice
Pedro López Sáez (Universidad Complutense de Madrid, Spain), de al.

Intellectual Capital and Technological Innovation: Knowledge-Based Theory and Practice provides relevant theoretical frameworks and the latest empirical research findings to improve understanding of the current innovation processes from the knowledge based perspective, giving special attention to both the intellectual capital assets that intervene in it, and the social capital that surrounds and enhances or hinders this phenomenon. This book has particular relevance for managers, academics and consultants benefiting from a thorough understanding of intellectual capital and social capital as a base for improving their tasks.

Information Resources Management: Concepts, Methodologies, Tools and Applications (4 Vols.)
Information Resources Management Association (USA)

Information Resources Management: Concepts, Methodologies, Tools and Applications is a comprehensive, four-volume reference addressing major issues, trends, and areas for advancement in information management research. Collecting research from hundreds of leading scholars, this reference aims to encompass essential topics in the discipline and provide theoretical queries to promote further study. This multi-volume work contains chapters investigating human factors in IT management, as well as IT governance, outsourcing, and diffusion.
Ontology Theory, Management and Design: Advanced Tools and Models
Faiez Gargouri (Higher Institute of Informatics and Multimedia of Sfax, Tunisia) and Wassim Jaziri (Higher Institute of Informatics and Multimedia of Sfax, Tunisia)

Ontology Theory, Management and Design: Advanced Tools and Models explores the wide range of applications for ontologies, while providing a complete view of both the theory behind the design and the problems posed by the practical development and use of ontologies. This reference presents an in-depth and forward looking analysis of current research, illustrating the importance of this field and pointing toward the future of knowledge engineering, management and information technology.

Developing Sustainable Digital Libraries: Socio-Technical Perspectives
Tariq Ashraf (University of Delhi, India), Jaideep Sharma (Indira Gandhi National Open University, India), and Puja Anand Gulati (University of Delhi, India)

Developing Sustainable Digital Libraries: Socio-Technical Perspectives presents a compilation of articles discussing the benefits and challenges of digital information and library digitization. Scholars from around the globe investigate web application development, techniques for digital conversion, composition of digital libraries, digital environments, and much more. This reference work proves valuable to the study and enhancement of digital information systems and technologies, and in assisting practitioners in the implementation and building of such systems and applications.

Knowledge-Based Development for Cities and Societies: Integrated Multi-Level Approaches
Kostas Metaxiotis (National Technical University of Athens, Greece), et al.

Knowledge-Based Development for Cities and Societies: Integrated Multi-Level Approaches enlightens the concepts and challenges of knowledge management for both urban environments and entire regions, enhancing the expertise and knowledge of scholars, researchers, practitioners, managers and urban developers in the development of successful knowledge-based development policies, creation of knowledge cities and prosperous knowledge societies. This reference creates large knowledge base for scholars, managers and urban developers and increases the awareness of the role of knowledge cities and knowledge societies in the knowledge era, as well as of the challenges and opportunities for future research.

Ubiquitous Developments in Knowledge Management: Integrations and Trends
Murray Jennex (San Diego State University, USA)

Ubiquitous Developments in Knowledge Management: Integrations and Trends depicts new technologies, approaches, issues, solutions, and cases that can help an organization implement a knowledge management initiative or provide a knowledge base for the practitioner/academic researcher. This foundational reference contributes to existing knowledge management literature by providing new insight into the continual evolution of the discipline in modern organizations.

Breakthrough Discoveries in Information Technology Research: Advancing Trends
Mehdi Khosrow-Pour (Information Resources Management Association, USA)

Breakthrough Discoveries in Information Technology Research: Advancing Trends, aims to inform researchers and practitioners of novel and emerging research in information science and technology, allowing for the discussion and dissemination of critical concepts that will promote further study and innovation. Selections explore all facets of the discipline, with specific contributions focusing on outsourcing, ethical concerns in research, biometrics, and information technology's role in disaster prediction and prevention.

Global, Social, and Organizational Implications of Emerging Information Resources Management: Concepts and Applications
Mehdi Khosrow-Pour (Information Resources Management Association, USA)

Global, Social, and Organizational Implications of Emerging Information Resources Management: Concepts and Applications highlights recent trends and advancements as they impact all facets of information resources management in an ever-changing society. This collection provides focused discussions of the role outsourcing has played in modern business, the development of Web information systems, and social issues such as explorations of age-based salary differences and workplace stress.
Net Centricity and Technological Interoperability in Organizations: Perspectives and Strategies
Supriya Ghosh (Arcadia Concepts, USA)

Net Centricity and Technological Interoperability in Organizations: Perspectives and Strategies provides understanding on the achievement of interoperability among organizations, focusing on new structural design concepts. This innovative publication is exceptional in its integration and explanation of complex topics.

Knowledge Management Strategies for Business Development
Meir Russ (University of Wisconsin, USA)

Knowledge Management Strategies for Business Development addresses the relevance of knowledge management strategies for the advancement of organizations worldwide. This reference book supplies business practitioners, academicians, and researchers with comprehensive tools to systematically guide through a process that focuses on data gathering, analysis, and decision making.

Cultural Implications of Knowledge Sharing, Management and Transfer: Identifying Competitive Advantage
Deogratias Harorimana (Southampton Solent University, UK)

Cultural Implications of Knowledge Sharing, Management and Transfer: Identifying Competitive Advantage illustrates, compares, and discusses models, perspectives, and approaches involved in the distribution, administration, and transmission of knowledge across organizations. This defining reference collection offers diverse viewpoints and depicts possible trajectories of future development in achieving competitive advantage.

Strategic Information Systems: Concepts, Methodologies, Tools, and Applications (4 Vols.)
M. Gordon Hunter (University of Lethbridge, Canada)

Strategic Information Systems: Concepts, Methodologies, Tools, and Applications provides a compendium of comprehensive advanced research articles written by an international collaboration of experts involved with the strategic use of information systems. This estimable repository of authoritative contributions presents academicians, practitioners, and researchers with an enriched compilation of cutting-edge knowledge.

Temporal Structures in Individual Time Management: Practices to Enhance Calendar Tool Design
Dezhi Wu (Southern Utah University, USA)

Temporal Structures in Individual Time Management: Practices to Enhance Calendar Tool Design covers concepts, methodologies, techniques, tools, and perspectives essential to understanding individual time management experiences. This book provides both qualitative and quantitative evidences and insights valuable for researchers and practitioners in enhancing current electronic calendar systems design and implementation.

Database Technologies: Concepts, Methodologies, Tools, and Applications (4 Vols.)
John Erickson (University of Nebraska, Omaha, USA)

Database Technologies: Concepts, Methodologies, Tools, and Applications expands the field of database technologies through four-volumes of in-depth, advanced research articles from nearly 300 of the world’s leading professionals. This breakthrough publication contains over 200 chapters of important concepts, methods, and functions of database technologies, covering topics such as conceptual modeling, data warehousing, and Web-based information systems.
Encyclopedia of Data Warehousing and Mining, Second Edition (4 Vols.)
John Wang (Montclair State University, USA)

The Encyclopedia of Data Warehousing and Mining, Second Edition, offers thorough exposure to the issues of importance in the rapidly changing field of data warehousing and mining. This essential reference source informs decision makers, problem solvers, and data mining specialists in business, academia, government, and other settings with over 300 entries on theories, methodologies, functionalities, and applications.

Encyclopedia of Information Communication Technology (2 Vols.)
Antonio Cartelli (University of Cassino and Southern Lazio, Italy) and Marco Palma (University of Cassino, Italy)

The Encyclopedia of Information Communication Technology (ICT) is a comprehensive resource describing the influence of information communication technology in scientific knowledge construction, with emphasis on the roles of product technologies, process technologies, and context technologies. Through 111 authoritative contributions by 93 of the world’s leading experts this reference covers the materials and instruments of information technology: from ICT in education to software engineering; the influence of ICT on different environments, including e-commerce, decision support systems, knowledge management, and more; and the most pervasive presence of information technology, including studies and research on knowledge management, the human side of ICT, ICT in healthcare, and virtual organizations, among many others.

Handbook of Research on Innovations in Database Technologies and Applications: Current and Future Trends (2 Vols.)
Viviana E. Ferragigne (UNICEN, Argentina), Jorge Horacio Doorn (UNICEN, Argentina), and Laura C. Rivero (UNICEN, Argentina)

The Handbook of Research on Innovations in Database Technologies and Applications: Current and Future Trends provides a wide compendium of references to topics in the field of database systems and applications. Offering an ideal resource of knowledge for students, researchers, and practitioners needing speedy and reliable information and authoritative references in database technologies, this reference book supplies not only broad coverage and definitions of the most important issues, basic concepts, trends, and technologies in this area, but also interesting surveys on classical subjects.

Handbook of Research on Text and Web Mining Technologies (2 Vols.)
Min Song (New Jersey Institute of Technology, USA) and Yi-Fang Brook Wu (New Jersey Institute of Technology, USA)

The Handbook of Research on Text and Web Mining Technologies is the first comprehensive reference to the state of research in the field of text mining, serving a pivotal role in educating practitioners in the field. This compendium of pioneering studies from leading experts is essential to academic reference collections and introduces researchers and students to cutting-edge techniques for gaining knowledge discovery from unstructured text.

Progressive Methods in Data Warehousing and Business Intelligence: Concepts and Competitive Analytics
David Taniar (Monash University, Australia)

Progressive Methods in Data Warehousing and Business Intelligence: Concepts and Competitive Analytics presents the latest trends, studies, and developments in business intelligence and data warehousing contributed by experts from around the globe. Consisting of four main sections, this book covers crucial topics within the field such as OLAP and patterns, spatio-temporal data warehousing, and benchmarking of the subject.
Media and Communications

New research in the fields of media and communications is constantly emerging as traditional print media goes digital and mobile devices become an increasingly important part of our everyday lives. In an age where we can connect to anybody in the world with the touch of a button, research into the tools and trends fueling the ubiquity of communication and digital media is essential.

IGI Global’s Media and Communications subject area seeks to present the latest research in all areas of communication theory, mobile computing, social networking, linguistics, multimedia technology, and telecommunications. Featuring innovative research on diverse topics, this collection is ideally designed for academicians, linguists, theorists, journalists, IT professionals, and students interested in furthering their knowledge in this field.

InfoSci®-Subject Database

InfoSci®-Media and Communications

The premier collection is a fully-searchable database that provides access to all chapters included in IGI Global books that have been published in the core subject area of media and communications. InfoSci®-Media and Communications includes the work of hundreds of top scholars, and is a unique and unmatched benefit to your library.

Contact eresources@igi-global.com for product details and pricing options.
Implications of Social Media Use in Personal and Professional Settings

Vladlena Benson (Kingston Business School, UK) and Stephanie Morgan (Kingston Business School, Kingston University, UK)

Implications of Social Media Use in Personal and Professional Settings investigates the paradoxical nature of social networking in our personal lives and in the workplace. Highlighting emergent research and psychological impacts, this publication is an indispensable reference source for academics, researchers, and professionals interested in the application of social media, as well as the positive aspects and detrimental effects of the usage of these technologies.

Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management (2 Vols.)

Narma Kaabouch (University of North Dakota, USA) and Wen-Chen Hu (University of North Dakota, USA)

The Handbook of Research on Software-Defined and Cognitive Radio Technologies for Dynamic Spectrum Management examines the emerging technologies being used to overcome radio spectrum scarcity. Providing timely and comprehensive coverage on topics pertaining to channel estimation, spectrum sensing, communication security, frequency hopping, and smart antennas, this research work is essential for use by educators, industrialists, and graduate students, as well as academicians researching in the field.

Digital Arts and Entertainment: Concepts, Methodologies, Tools, and Applications (3 Vols.)

Information Resources Management Association (USA)

Digital Arts and Entertainment: Concepts, Methodologies, Tools, and Applications examines the latest research and findings in electronic media, evaluating the staying power of this increasingly popular paradigm along with best practices for those engaged in the field. With chapters on topics ranging from an introduction to online entertainment to the latest advances in digital media, this impressive three-volume reference source will be important to researchers, developers, and students of the digital arts.

Interdisciplinary Mobile Media and Communications: Social, Political, and Economic Implications

Xiaoge Xu (The University of Nottingham, Ningbo China, China)

Interdisciplinary Mobile Media and Communications: Social, Political, and Economic Implications sheds light on emerging disciplines in multimedia technologies and discusses the changes, chances, and challenges in the mobile world. Areas such as mobile governance, mobile healthcare, and mobile identity are examined, along with their social, political, and economic implications. Serving as a reconnection between academia and industry, this book will be useful for students, professors, researchers, and policy-makers of mobile media and communications.

Mobile Technologies for Activity-Travel Data Collection and Analysis

Soora Rasouli (Eindhoven University of Technology, The Netherlands) and Harry Timmermans (Eindhoven University of Technology, The Netherlands)

Mobile Technologies for Activity-Travel Data Collection and Analysis concentrates on one particular and fast-growing application of mobile technologies: data acquisition for the tourism industry. This critical reference source provides travel agents, visitors, and hosts with the most advanced data mining methods, empirical research findings, and computational analysis techniques necessary to compete effectively in the global tourism industry.
Handbook of Research on the Impact of Culture and Society on the Entertainment Industry

R. Gulay Ozturk (Istanbul Commerce University, Turkey)

The Handbook of Research on the Impact of Culture and Society on the Entertainment Industry provides a review of the academic and popular literature on the relationship between communications and media studies, cinema, advertising, public relations, religion, food tourism, art, sports, technology, culture, marketing, and entertainment practices. Founded on international research, this publication is essential for upper-level students, researchers, academicians, business executives, and industry professionals seeking knowledge on the current scope of the entertainment industry.

Cases on the Societal Effects of Persuasive Games

Dana Ruggiero (Bath Spa University, UK)

Cases on the Societal Effects of Persuasive Games investigates the connection between multimedia technologies and game-based learning for an improved understanding of the impact and effectiveness of serious games in modern societies. With examples from the fields of education, business, healthcare, and more, this book serves as a crucial reference source for researchers, educators, developers, and students in higher and continuing education.

Cognitive Radio Sensor Networks: Applications, Architectures, and Challenges

Mubashir Husain Rehmani (Department of Electrical Engineering, COMSATS Institute of Information Technology, Pakistan) and Yasar Faheem (Department of Computer Science, COMSATS Institute of Information Technology, Pakistan)

Cognitive Radio Sensor Networks: Applications, Architectures, and Challenges presents a broader picture of the applications, architecture, challenges, and open research directions in the area of WSN research. It serves as a reference book for graduate students in courses on topics such as wireless sensor networks, cognitive radio networks, and emerging wireless technologies.

Convergence of Broadband, Broadcast, and Cellular Network Technologies

Ramona Trestian (Middlesex University, UK) and Gabriel-Miro Muntean (Dublin City University, Ireland)

Convergence of Broadband, Broadcast, and Cellular Network Technologies addresses the problems of broadband, broadcast, and cellular coexistence, including the increasing number of advanced mobile users and their bandwidth demands. This book will serve as a link between academia and industry, serving students, researchers, and industry professionals.

Identity and Leadership in Virtual Communities: Establishing Credibility and Influence

Dona J. Hickey (University of Richmond, USA) and Joe Essid (University of Richmond, USA)

Identity and Leadership in Virtual Communities: Establishing Credibility and Influence explores the notion of establishing an identity online, managing it like a brand, and using it with particular members of a community. Bringing together a range of voices exemplifying how participants in online communities influence one another, this book serves as an essential reference for academicians, researchers, students, and professionals, including bloggers, software designers, and entrepreneurs seeking to build and manage their engagement online.
Cross-Cultural Interaction: Concepts, Methodologies, Tools and Applications (3 Vols.)
M.A. Matin (Institut Teknologi Brunei, Brunei Darussalam)

The Handbook of Research on Progressive Trends in Wireless Communications and Networking brings together advanced research on diverse topics in wireless communications and networking, including the latest developments in broadband technologies, mobile communications, wireless sensor networks, network security, and cognitive radio networks. This book serves as a comprehensive reference for upper-level students, academicians, and industry professionals interested in uncovering recent advancements in wireless communications and networking.

Cross-Cultural Interaction: Concepts, Methodologies, Tools and Applications explores contemporary research and historical perspectives on intercultural competencies and transnational organizations. This three-volume compilation will present a compendium of knowledge on cultural diversity and the impact this has on modern interpersonal interactions. Within these pages, a variety researchers, scholars, professionals, and leaders who interact regularly with the global society will find useful insight and fresh perspectives on the field of cross-cultural interaction.

Communication and Language Analysis in the Corporate World
Roderick P. Hart (University of Texas at Austin, USA)

Communication and Language Analysis in the Corporate World provides insight into the verbage of the corporate world and the influence of this environment for a person’s speech pattern, language, and terminology. This book will provide a guide for language researchers and business leaders alike so that they may find a way to communicate with everyone – customers, colleagues, and CEOs – effectively.

Educational, Psychological, and Behavioral Considerations in Niche Online Communities
Vivek Venkatesh (Concordia University, Canada), Jason Wallin (University of Alberta, Canada), Juan Carlos Castro (Concordia University, Canada) and Jason Edward Lewis (Concordia University, Canada)

Educational, Psychological, and Behavioral Considerations in Niche Online Communities examines the presence of online communities centered around niche topics of interest and the impact of these virtual spaces on community members. Taking perspectives from interdisciplinary fields such as sociology, psychology, and education, this publication will appeal to educators, psychologists, behaviorists, students, and researchers interested in the impact of virtual communities on individuals as well as the opportunities these online communities present.

Harnessing the Power of Social Media and Web Analytics
Anteneh Ayanso (Brock University, Canada) and Kaveepan Lertwachara (California Polytechnic State University, USA)

Harnessing the Power of Social Media and Web Analytics documents high-quality research to empower businesses to derive intelligence from social media sites. These emerging technological tools have allowed businesses to quantify, understand, and respond to customers’ conversations about their corporate reputation and brands within online communities. This publication is ideal for academic and professional audiences interested in applications and practices of social media and web analytics in various industries.

Communication and Language Analysis in the Public Sphere
Roderick P. Hart (University of Texas at Austin, USA)

Communication and Language Analysis in the Public Sphere explores the influence of the World Wide Web on the relationships between ordinary citizens and the ability to communicate with politicians, celebrities, and the media. As some words may gain popularity worldwide, and others may begin to define a specific discipline. This book is essential for linguistics researchers, scholars, and professionals interested in determining these patterns and how they affect groups and individuals.

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New Media and Communication Across Religions and Cultures
Isaac Nahon-Serfaty (University of Ottawa, Canada) and Rukhsana Ahmed (University of Ottawa, Canada)

New Media and Communication Across Religions and Cultures offers a unique opportunity in both the social sciences, humanities, and communication fields to provide concrete concepts and notions in the areas of inter-religious and inter-cultural dialogue. By exploring this empirical research of relevant experiences, this book is important for researchers, practitioners, and students in varied fields of philosophy, sociology, cultural studies, media students, law, and more.

Broadband Wireless Access Networks for 4G: Theory, Application, and Experimentation
Raul Aquino Santos (University of Colima, Mexico), Victor Rangel Licea (National Autonomous University of Mexico, Mexico), and Arthur Edwards Block (University of Colima, Mexico)

Broadband Wireless Access Networks for 4G: Theory, Application, and Experimentation presents the latest trends and research on mobile ad hoc networks, vehicular ad hoc networks, and routing algorithms which occur within various mobile networks. This publication smartly combines knowledge and experience from enthusiastic scholars and expert researchers in the area of wideband and broadband wireless networks. Students, professors, researchers, and other professionals in the field will benefit from this book’s practical applications and relevant studies.

Video Surveillance Techniques and Technologies
Vesna Zeljkovic (New York Institute of Technology, Nanjing campus)

Video Surveillance Techniques and Technologies presents empirical research and acquired experience on the original solutions and mathematical algorithms for motion detection and object identification problems. Emphasizing a wide variety of applications of security systems, this book is an essential tool for graduate students and professionals in the field of signal and image processing applied in static/moving object detection, tracking, and identification.

Digital Rhetoric and Global Literacies: Communication Modes and Digital Practices in the Networked World
Gustav Verhulsdonck (University of Texas at El Paso, USA) and Marohang Limbu (Michigan State University, USA)

Digital Rhetoric and Global Literacies: Communication Modes and Digital Practices in the Networked World compiles relevant theoretical frameworks, current practical applications, and emerging practices of digital rhetoric. Highlighting the key principles and understandings of the underlying modes, practices, and literacies of communication, this book is a vital guide for professionals, scholars, researchers, and educators interested in finding clarity and enrichment in the diverse perspectives of digital rhetoric research.

Techniques and Principles in Three-Dimensional Imaging: An Introductory Approach
Martin Richardson (De Montfort University, UK)

Techniques and Principles in Three-Dimensional Imaging: An Introductory Approach provides the reader with a concrete understanding of basic principles and pitfalls for 3-D capturing. Highlighting stereoscopic imaging systems including holography; this book is an essential tool for scholars concerned with the interdisciplinary field of 3-D science and next generation imaging, as well as readers interested in the field of three-dimensional and its wider application.

Multidisciplinary Perspectives on Telecommunications, Wireless Systems, and Mobile Computing
Wen-Chen Hu (University of North Dakota, USA)

Multidisciplinary Perspectives on Telecommunications, Wireless Systems, and Mobile Computing explores some of the latest advances in wireless communication technologies, making use of empirical research and analytical case studies to evaluate best practices in the discipline. This book will provide insight into the next generation of information and communication technologies for developers, engineers, students, researchers, and managers in the telecommunications field.
perception and the role of computer graphics.

This book gives researchers, computer scientists, and academics an active experience which enhances the critical issues, this book is essential for researchers, practitioners, and students interested in the emerging field of vehicular wireless networks.

Mobile Networks and Cloud Computing Convergence for Progressive Services and Applications

Joel J.P. Rodrigues (Instituto de Telecomunicações, University of Beira Interior, Portugal), Kai Lin (Dalian University of Technology, China), and Jaime Lloret (Polytechnical University of Valencia, Spain)

Mobile Networks and Cloud Computing Convergence for Progressive Services and Applications is a fundamental source for the advancement of knowledge, application, and practice in the interdisciplinary areas of mobile network and cloud computing. By addressing innovative concepts and critical issues, this book is essential for researchers, practitioners, and students interested in the emerging field of vehicular wireless networks.

Computational Solutions for Knowledge, Art, and Entertainment: Information Exchange Beyond Text

Anna Ursyn (University of Northern Colorado, USA)

Computational Solutions for Knowledge, Art, and Entertainment: Information Exchange Beyond Text focuses on the methods of depicting knowledge-based concepts in order to assert power beyond a visual explanation of scientific and computational notions. This book combines formal descriptions with graphical presentations and encourages readers to interact by creating visual solutions for science-related concepts and presenting data. This reference is essential for researchers, computer scientists, and academics focusing on the integration of science, technology, computing, art, and mathematics for visual problem solving.

Creating Personal, Social, and Urban Awareness through Pervasive Computing

Bin Guo (Northwestern Polytechnical University, China), Daniele Riboni (University of Milano, Italy), and Peizhao Hu (NICTA, Australia)

Creating Personal, Social, and Urban Awareness through Pervasive Computing provides an overview of the theories, techniques, and practical applications related to the three dimensions of context awareness. Through the exploration of emerging research trends of pervasive computing, this book is beneficial to professors, students, researchers, and developers interested in the latest development in the field of context-awareness and pervasive computing.

Perceptions of Knowledge Visualization: Explaining Concepts through Meaningful Images

Anna Ursyn (University of Northern Colorado, USA)

Perceptions of Knowledge Visualization: Explaining Concepts through Meaningful Images discusses issues related to visualization of scientific concepts, picturing processes and products, as well as the role of computing in the advancement of visual literacy skills. By connecting theory with practice, this book gives researchers, computer scientists, and academics an active experience which enhances the perception and the role of computer graphics.

User Behavior in Ubiquitous Online Environments

Jean-Eric Pelet (IDRAC International School of Management, LEMNA, IAE-EMN – Nantes University, France) and Panagiota Papadopoulou (University of Athens, Greece)

User Behavior in Ubiquitous Online Environments explores how users interact with mobile devices and applications in an array of contexts, providing relevant theoretical frameworks and the latest empirical research on ubiquitous computing. Within this reference, researchers and professionals in fields such as computer science, information technology, education, and library science will find a detailed discussion of implementing ubiquitous technologies in a variety of organizations and situations.

Innovative Methods and Technologies for Electronic Discourse Analysis

Hwee Ling Lim (The Petroleum Institute, UAE) and Fay Sudweeks (Murdoch University, Australia)

Innovative Methods and Technologies for Electronic Discourse Analysis highlights research, applications, frameworks, and theories of online communication to explore recent advances in the manipulation and shaping of meaning in electronic discourse. This essential research collection will appeal to academic research, and professional audiences engaged in the design, development, and distribution of effective communications technologies in educational, social, and linguistic contexts.
Research and Design Innovations for Mobile User Experience

Kerem Rızaoglu (Galatasaray University, Turkey) and Görkem Çetin (Galatasaray University, Turkey)

Research and Design Innovations for Mobile User Experience offers innovative design solutions for mobile human-computer interfaces, addressing both challenges and opportunities in the field to pragmatically improve the accessibility of mobile technologies. Through cutting-edge empirical studies and investigative cases, this reference book will enable designers, developers, managers, and experts of mobile computer interfaces with the most up-to-date tools and techniques for providing their users with an outstanding mobile experience.

Exploring Multimodal Composition and Digital Writing

Richard E. Ferdig (Research Center for Educational Technology - Kent State University, USA), and Kristine E. Pytash (Kent State University, USA)

Exploring Multimodal Composition and Digital Writing investigates the use of digital technologies to create multi-media documents that utilize video, audio, and web-based elements to further written communication beyond what can be accomplished by words alone. Educators, scholars, researchers, and professionals will use this critical resource to explore theoretical and empirical developments in the creation of digital and multimodal documents throughout the education system.

Integrated Models for Information Communication Systems and Networks: Design and Development

Aderemi A. Atayero (Covenant University, Nigeria) and Oleg I. Sheluhin (Moscow Technical University of Communication & Informatics, Russia)

Integrated Models for Information Communication Systems and Networks: Design and Development explores essential information and current research findings on information communication systems and networks. This reference source aims to assist professionals in the desire to enhance their knowledge of modeling at systems level with the aid of modern software packages.
Security, Design, and Architecture for Broadband and Wireless Network Technologies
Naveen Chilamkurti (La Trobe University, Australia)


Intelligent Computer Vision and Image Processing: Innovation, Application, and Design
Muhammad Sarfraz (Kuwait University, Kuwait)

Intelligent Computer Vision and Image Processing: Innovation, Application, and Design provides methods and research on various disciplines related to the science and technology of machines. This reference source is essential for academicians, researchers, and practitioners interested in the latest developments and innovations in computer science, education, and security.

Semantic Web: Ontology and Knowledge Base Enabled Tools, Services, and Applications
Amit P. Sheth (Kno.e.sis Center, Wright State University, USA)

Semantic Web: Ontology and Knowledge Base Enabled Tools, Services, and Applications focuses on the information systems discipline and the tools and techniques utilized for the emerging use of semantic web. Covering topics on semantic search, ontologies, and recommendation systems, this publication is essential for academics, practitioners, and industry professionals.

Multimedia Data Engineering Applications and Processing
Shu-Ching Chen (Florida International University, USA) and Mei-Ling Shyu (University of Miami, USA)

Multimedia Data Engineering Applications and Processing presents different aspects of multimedia data engineering and management research. This collection of recent theories, technologies and algorithms brings together a detailed understanding of multimedia engineering and its applications. This reference source will be of essential use for researchers, scientists, professionals and software engineers in the field of multimedia.

Digital Media and Technologies for Virtual Artistic Spaces
Dew Harrison (University of Wolverhampton, UK)

Digital Media and Technologies for Virtual Artistic Spaces brings together a variety of artistic practices in virtual spaces and the interest in variable media and online platforms for creative interplay. Presenting frameworks and examples of current practices, this book is useful for artists, theorists, curators as well as researchers working with new technologies, social media platforms and digital culture.

Communication in Transportation Systems
Otto Strobel (Esslingen University of Applied Sciences, Germany)

Communication in Transportation Systems brilliantly bridges theoretical knowledge and practical applications of the cutting edge technologies for communication in automotive applications. This reference source carefully covers innovative technologies which will continue to advance transportation systems. Researchers, developers, scholars, engineers, and graduate students in the transportation and automotive system, communication, electrical, and information technology fields will especially benefit from this advanced publication.
Web Portal Design, Implementation, Integration, and Optimization
Jana Polgar (Dialog IT, Australia) and Greg Adamson (University of Melbourne, Australia)
Web Portal Design, Implementation, Integration, and Optimization discusses the challenges faced in building web services and integrating applications in order to reach the successful benefits web portals bring to an organization. This collection of research aims to be a resource for researchers, developers, and industry practitioners involved in the technological, business, organizational and social dimensions of web portals.

Cases on Open-Linked Data and Semantic Web Applications
Patricia Ordóñez de Pablos (University of Oviedo, Spain), Miltiadis D. Lytras (American College of Greece, Greece), Robert Tennyson (University of Minnesota, USA), and Jose Emilio Labra Gayo (University of Oviedo, Spain)
Cases on Open-Linked Data and Semantic Web Applications brings together new theories, research findings and case studies which cover the recent developments and approaches towards applied open linked data and semantic web in the context of information systems. By enhancing the understanding of open linked data in business, science and information technologies, this reference source aims to be useful for academics, researchers, and practitioners.

Self-Organization and Green Applications in Cognitive Radio Networks
Anwer Al-Dulaimi (Brunel University, UK), John Cosmas (Brunel University, UK) and Abbas Mohammed (Blekinge Institute of Technology, Sweden)
Self-Organization and Green Applications in Cognitive Radio Networks provides recent research on the developments of efficient cognitive network topology. The most current procedures and results are presented to demonstrate how developments in this area can reduce complications, confusion, and even costs. The book also identifies future challenges that are predicted to arrive in the Cognitive Radio Network along with potential solutions. This innovative publication is unique because it suggests green, energy efficient and cost efficient resolutions to the inevitable challenges in the network.

Social and Economic Effects of Community Wireless Networks and Infrastructures
Abdelnasser Abdelaal (Ibri College of Applied Sciences, Oman)
Social and Economic Effects of Community Wireless Networks and Infrastructures highlights the successes of community wireless networks but also boldly addresses the potential risk factors and broader socioeconomic concerns. This publication's exploration of previous successes and failures, various designs, and potential challenges with CWNs makes it a valuable resource for researchers, practitioners, vendors, and activists.

Mobile and Handheld Computing Solutions for Organizations and End-Users
Wen-Chen Hu (University of North Dakota, USA) and S. Hossein Mousavinezhad (Idaho State University, USA)
Mobile and Handheld Computing Solutions for Organizations and End-Users discusses a broad range of topics in order to advance handheld knowledge and apply the proposed methods to real-world issues for organizations and end users. This book brings together researchers and practitioners involved with mobile and handheld computing solutions useful for IT students, researchers, and scholars.

Adoption and Optimization of Embedded and Real-Time Communication Systems
Seppo Virtanen (University of Turku, Finland)
Adoption and Optimization of Embedded and Real-Time Communication Systems presents innovative research on the integration of embedded systems, real-time systems and the developments towards multimedia technology. This book is essential for researchers, practitioners, scientists, and IT professionals interested in expanding their knowledge of this interdisciplinary field.

Cases on Open-Linked Data and Semantic Web Applications
Patricia Ordóñez de Pablos (University of Oviedo, Spain), Miltiadis D. Lytras (American College of Greece, Greece), Robert Tennyson (University of Minnesota, USA), and Jose Emilio Labra Gayo (University of Oviedo, Spain)
Cases on Open-Linked Data and Semantic Web Applications brings together new theories, research findings and case studies which cover the recent developments and approaches towards applied open linked data and semantic web in the context of information systems. By enhancing the understanding of open linked data in business, science and information technologies, this reference source aims to be useful for academics, researchers, and practitioners.
Structuring Music through Markup Language: Designs and Architectures
Jacques Steyn (Monash University, Australia)

Structuring Music through Markup Language: Designs and Architectures offers a different approach to music by focusing on the information organization and the development of XML-based language. This book aims to offer a new set of tools on for practical implementations and a new investigation into the theory of music.

Advancements and Innovations in Wireless Communications and Network Technologies
Michael R. Bartolacci (Pennsylvania State University-Berks, USA) and Steven R. Powell (California State Polytechnic University - Pomona, USA)

Advancements and Innovations in Wireless Communications and Network Technologies is a collection of research and case studies which tackle the issues, advancements, and techniques on wireless communications and network technologies. This book offers expansive knowledge and different perspectives useful for researchers and students alike.

Network and Communication Technology Innovations for Web and IT Advancement
Ghazi I. Alkhatib (Princess Sumaya University for Technology, Jordan)

Network and Communication Technology Innovations for Web and IT Advancement presents studies on trends, developments, and methods on information technology advancements through network and communication technology. This collection brings together integrated approaches for communication technology and usage for web and IT advancements.

Contemporary Challenges and Solutions for Mobile and Multimedia Technologies
Ismail Khalil (Johannes Kepler University Linz, Austria) and Edgar Weippl (Secure Business Austria - Security Research, Austria)

Contemporary Challenges and Solutions for Mobile and Multimedia Technologies provides comprehensive knowledge on the growth and changes in the field of multimedia and mobile technologies. This reference source highlights the advancements in mobile technology that are beneficial for developers, researchers, and designers.

Multimedia Information Hiding Technologies and Methodologies for Controlling Data
Kazuhiro Kondo (Yamagata University, Japan)

Multimedia Information Hiding Technologies and Methodologies for Controlling Data presents the latest methods and research results in this emerging field of Multimedia Information Hiding (MIH). This comprehensive collection is beneficial to all researchers and engineers working globally in this field and aims to inspire new graduate-level students as they explore this promising field.

Roadside Networks for Vehicular Communications: Architectures, Applications, and Test Fields
Robil Daher (University of Rostock, Germany), Alexey Vinel (Saint-Petersburg Institute for Informatics and Automation, Russia)

Roadside Networks for Vehicular Communications: Architectures, Applications, and Test Fields attempts to close the gap between science and technology in the field of roadside backbones for VCNs. This collection will be useful not only for researchers and engineers at universities, but for students in the fields of wireless communication networks, especially vehicular communication networks, and backbone networks as well.
Cognitive Radio and Interference Management: Technology and Strategy
Meng-Lin Ku (National Central University, Taiwan, R.O.C.) and Jia-Chin Lin (National Central University, Taiwan, R.O.C.)

Cognitive Radio and Interference Management: Technology and Strategy brings together state-of-the-art research results on cognitive radio and interference management from both theoretical and practical perspectives. It serves as a bridge between people who are working to develop theoretical and practical research in cognitive radio and interference management, and therefore facilitate the future development of cognitive radio and its applications.

Web-Based Multimedia Advancements in Data Communications and Networking Technologies
Varadharajan Sridhar (Sasken Communication Technologies, India) and Debashis Saha (Indian Institute of Management Calcutta, India)

Web-Based Multimedia Advancements in Data Communications and Networking Technologies highlights comprehensive research which will enable readers to understand, manage, use, and maintain business data communication networks more effectively. It also addresses key technology, management, and policy issues for utilizing data communications and networking in business and the current best practices for aligning this important technology with the strategic goals of the organization.

Strategy, Adoption, and Competitive Advantage of Mobile Services in the Global Economy
In Lee (Western Illinois University, USA)

Strategy, Adoption, and Competitive Advantage of Mobile Services in the Global Economy seeks to foster a scientific understanding of mobile services, provides a timely publication of current research efforts, and forecast future trends in the mobile services industry. Written for academics, researchers, government policymakers, and corporate managers, this comprehensive volume will outline the great potential for new business models and applications in mobile commerce.
Web Service Composition and New Frameworks in Designing Semantics: Innovations
Patrick C.K. Hung
(University of Ontario Institute of Technology, Canada)

Methods and Innovations for Multimedia Database Content Management
Shu-Ching Chen (Florida International University, USA) and Mei-Ling Shyu (University of Miami, USA)

Next Generation Content Delivery Infrastructures: Emerging Paradigms and Technologies
Giancarlo Fortino (Università della Calabria, Italy) and Carlos E. Palau (Universidad Politécnica de Valencia, Spain)

Mohammad A. Matin
(Teknologi Brunei, Brunei Darussalam)

Ubiquitous Positioning and Mobile Location-Based Services in Smart Phones
Ruizhi Chen (Finnish Geodetic Institute, Finland)

Chipless and Conventional Radio Frequency Identification: Systems for Ubiquitous Tagging
Nemai Chandra Karmakar
(Monash University, Australia)
for communication.

research as it relates to real-time systems engineering, technologies, frameworks, architectures, best practices, and concentration, giving the latest case studies, method-
collection are the respective experts in their areas of

wide variety of fields and countries, the authors of this

Engineering, and will serve as a vital reference

latest research within the field of real-time systems

Innovations in Embedded and Real-Time Systems Engineering

Seppo Virtanen (University of Turku, Finland)

Innovations in Embedded and Real-Time Systems Engineering for Communication has collected the latest research within the field of real-time systems engineering, and will serve as a vital reference compendium for practitioners and academics. From a wide variety of fields and countries, the authors of this collection are the respective experts in their areas of concentration, giving the latest case studies, methodologies, frameworks, architectures, best practices, and research as it relates to real-time systems engineering for communication.

Using Cross-Layer Techniques for Communication Systems

Habib F. Rashvand (University of Warwick, UK) and Yousef S. Kavian (Shahid Chamran University, Iran)

Using Cross-Layer Techniques for Communication Systems explores how cross-layer methods provide ways to escape from the current communications model and overcome the challenges imposed by restrictive boundaries between layers. Written exclusively by well-established researchers, experts, and professional engineers, the book will present basic concepts, address different approaches for solving the cross-layer problem, investigate recent developments in cross-layer problems and solutions, and present the latest applications of the cross-layer in a variety of systems and networks.

Emergent Trends in Personal, Mobile, and Handheld Computing Technologies

Wen-Chen Hu (University of North Dakota, USA)

Emergent Trends in Personal, Mobile, and Handheld Computing Technologies offers a vital compendium of the latest research within the field of personal computing, highlighting the latest trends in research and development of personal technology. As tablets and mobile phones begin to replace traditional hardware, it is important to stay abreast of the latest market research to keep your institution on the technological cutting-edge. This collection of case studies, best practices, and research offers chapters from experts from around the world, offering a critical resource for practitioners and academics alike.
Biologically-Inspired Computing for the Arts: Scientific Data through Graphics

Anna Ursyn (University of Northern Colorado, USA)

Biologically-Inspired Computing for the Arts: Scientific Data through Graphics comprises a collection of authors’ individual approaches to the relationship between nature, science, and art created with the use of computers. Themes discussed in the book relate to the use of visual language in communication about biologically-inspired scientific data, visual literacy in science, and application of practitioner’s approach. This comprehensive reference will assist programmers, scientists, engineers, computer science and science-oriented students in creating and effectively communicating their projects using science-related knowledge.

Innovative Design and Creation of Visual Interfaces: Advancements and Trends

Ben Falchuk (Telcordia Technologies Inc., USA) and Aderito Marcos (Universidade Aberta, Portugal)

Innovative Design and Creation of Visual Interfaces: Advancements and Trends offers the cutting edge in research, development, technologies, case studies, frameworks, and methodologies within the field of visual interfaces. The book has collected research from around the world to offer a holistic picture of the state of the art in the field. In order to stay abreast of the latest trends, this volume offers a vital resource for practitioners and academics alike.

Enhancing Enterprise and Service-Oriented Architectures with Advanced Web Portal Technologies

Greg Adamson (University of Melbourne, Australia) and Jana Polgar (Dialog IT, Australia)

Enhancing Enterprise and Service-Oriented Architectures with Advanced Web Portal Technologies offers the latest research and development within the field, filled with case studies, research, methodologies and frameworks from contributors around the world. In order to stay abreast of the cutting edge in the field, it is vital for academics and practitioners alike to stay involved and studied with the latest publications. This volume contains a wide range of subject matters, levels of technical expertise and development, and new technological advances within the field, and will serve as an excellent resource both as a handbook and a research manual.

Simulation in Computer Network Design and Modeling: Use and Analysis

Hussein Al-Bahadili (Petra University, Jordan)

Simulation in Computer Network Design and Modeling: Use and Analysis reviews methodologies in computer network simulation and modeling, illustrates the benefits of simulation in computer network design, modeling, and analysis, and identifies the main issues that face efficient and effective computer network simulation. This reference will inform the work and research of academics, postgraduate students, developers, network designers, network analysts, telecommunication system designers, and others who are interested in using simulation in computer network design and modeling.

Wireless Technologies in Vehicular Ad Hoc Networks: Present and Future Challenges

Raul Aquino Santos (University of Colima, Mexico), Arthur Edwards (University of Colima, Mexico), and Victor Rangel Licea (National Autonomous University of Mexico, Mexico)

Wireless Technologies in Vehicular Ad Hoc Networks: Present and Future Challenges explores different models for inter-vehicular communication, in which vehicles are equipped with on-board computers that function as nodes in a wireless network. The book covers current theories and applications in physical, medium access, and network layers of IVC systems, exploring inter-vehicle ad-hoc routing protocols and the challenges of predicting vehicular movements, particularly inter-vehicular distance and relative velocity in highly dynamic and varied real-world scenarios.
### Advancing the Next-Generation of Mobile Computing: Emerging Technologies

Ismail Khalil (Johannes Kepler University Linz, Austria), and Edgar Weippl (Secure Business Austria, Austria)

**Advancing the Next-Generation of Mobile Computing: Emerging Technologies** offers historical perspectives on mobile computing, as well as new frameworks and methodologies for mobile networks, intelligent mobile applications, and mobile computing applications. This collection of research aims to inform researchers, designers, and users of mobile technology and promote awareness of new trends and tools in this growing field of study.

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### Technologies and Protocols for the Future of Internet Design: Reinventing the Web

Deo Prakash Vidyarthi (Jawaharlal Nehru University, India)

**Technologies and Protocols for the Future of Internet Design: Reinventing the Web** aims to provide relevant methods and theories in the area of the Internet design. It is written for the research community and professionals who wish to improve their understanding of future Internet technologies and gain knowledge of new tools and techniques in future Internet design.

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### Semantic-Enabled Advancements on the Web: Applications Across Industries

Amit P. Sheth (Kno.e.sis Center, Wright State University, USA)

**Semantic-Enabled Advancements on the Web: Applications Across Industries** reviews current and future trends in Semantic Web research with the aim of making existing and potential applications more accessible to a broader community of academics, practitioners, and industry professionals. Covering topics including recommendation systems, semantic search, and ontologies, this reference is a valuable contribution to the existing literature in this discipline.

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### Handbook of Research on Serious Games as Educational, Business and Research Tools (2 Vols.)

Maria Manuela Cruz-Cunha (Polytechnic Institute of Cávado and Ave, Portugal)

**Handbook of Research on Serious Games as Educational, Business and Research Tools** collects research on the most recent technological developments in all fields of knowledge or disciplines of computer game development, including planning, design, development, marketing, business management, users and behavior. Including research on the technological aspects of serious games, user experience and serious games, serious games for social change, and business opportunities for serious games, this two-volume reference offers key perspectives on all aspects of social game design, development and implementation for researchers, managers, and computer game developers.

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### Wireless Multi-Access Environments and Quality of Service Provisioning: Solutions and Application

Gabriel-Miro Muntean (Dublin City University, Ireland) and Ramona Trestian (Dublin City University, Ireland)

**Wireless Multi-Access Environments and Quality of Service Provisioning: Solutions and Application** serves as a vital resource for practitioners to learn about the latest research and methodology within the field of wireless technology. This book covers important aspects of emerging technologies in the heterogeneous next generation network environment with focus on wireless communications and their quality. It presents network selection mechanisms, handover solutions and adaptive techniques and identifies the research issues and challenges and presents a survey of the proposed solutions in the literature. It includes important chapters written by researchers from prestigious laboratories from Australia, China, Mexico, Portugal, Germany, Greece, the United Kingdom, and India, presenting the current advancements in wireless communications.

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### Femtocell Communications and Technologies: Business Opportunities and Deployment Challenges

Rashid A. Saeed (UIA, Malaysia), Bharat S. Chaudhari (International Institute of Information Technology, India), and Rania A. Mokhtar (Sudan University of Science and Technology, Sudan)

**Femtocell Communications and Technologies: Business Opportunities and Deployment Challenges** is an extensive and thoroughly revised version of a collection of review and research based chapters on femtocell technology. This work focuses on mobility and security in femtocell, cognitive femtocell, and standardization and deployment scenarios. Several crucial topics addressed in this book are interference mitigation techniques, network integration option, cognitive optimization, and economic incentives to install femtocells that may have a larger impact on their ultimate success. The book is optimized for use by graduate students who are familiar with the fundamentals of wireless communication and cellular concepts.

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Trends investigates the role of games and computer-mediated simulations in a variety of environments, including education, government, and business. Exploring psychological, social, and cultural implications of games and simulations, as well as policies related to their development, this reference aims to support the work of researchers in this growing field, as well as bridge the gap between theory and practice in the application of electronic games to everyday situations.

Public Service, Governance and Web 2.0 Technologies: Future Trends in Social Media
Ed Downey (State University of New York, USA) and Matt Jones (Portland State University, USA)

Public Service, Governance and Web 2.0 Technologies: Future Trends in Social Media investigates the effects of Web technologies and social media on interaction and the political process. Researchers, government administrators, and policymakers will benefit from this book's examination of e-governance on an increasingly complex and interdependent world. Readers will learn to use Web technologies to address local and global problems and improve systems of governance, social equity, economic activity, sustainability, service delivery, transparency, and the ethical and legal dimensions of public service.

Noor Zaman (King Faisal University, Saudi Arabia), Khaled Ragab (King Faisal University, Saudi Arabia), and Azween Bin Abdullah (Universiti Teknologi Petronas, Malaysia)

Wireless Sensor Networks and Energy Efficiency: Protocols, Routing and Management focuses on wireless sensor networks and their operation, covering topics including routing, energy efficiency and management. Containing 27 chapters authored by a group of internationally experienced professionals and researchers in the fields of computer science, communication, and networking, this book discusses critical issues in wireless sensor network research including MAC, Routing Protocols, TCP performance and traffic management, time synchronization, and security.

Research, Practice, and Educational Advancements in Telecommunications and Networking
Michael R. Bartolacci (Pennsylvania State University-Berks, USA) and Steven R. Powell (California State Polytechnic University - Pomona, USA)

Research, Practice, and Educational Advancements in Telecommunications and Networking offers multidisciplinary perspectives on architectures and systems for effective, efficient communication across different types of infrastructures, which include online and wireless networks. Collecting research on mobile ad hoc networks, VoIP, and mobile recommendation systems, this book provides theoretical discussions, as well as practical research on new and emerging developments in telecommunications and networking.
Resilient Optical Network Design: Advances in Fault-Tolerant Methodologies
Yousaf S. Kavian (Shahid Chamran University, Iran) and Mark Stephen Leeson (University of Warwick, UK)

Resilient Optical Network Design: Advances in Fault-Tolerant Methodologies is a collection of the latest contributions to the area of survivability in optical networks. Each chapter focuses on theoretical and practical aspects of network survivability methodologies applied to real-world scenarios, making it a useful reference for research and development engineers, graduate students studying optical networks, and senior undergraduate students with a background in algorithms and networking.

Next Generation Data Communication Technologies: Emerging Trends
Debashis Saha (Indian Institute of Management Calcutta, India) and Varadharajan Sridhar (Sasken Communication Technologies, India)

Next Generation Data Communications Technologies: Emerging Trends contains case studies, theories, and empirical research aimed at assisting individuals and organizations in understanding the critical concepts of data networking and communications. The transmission of different types of media, along with resulting business implications, is studied in depth and applications for service providers are policy makers are offered in this rigorously researched collection.

Handbook of Research on Service-Oriented Systems and Non-Functional Properties: Future Directions
Stephan Reiff-Marganiec (University of Leicester, UK) and Marcel Tilly (EMIC Aachen, Germany)

The Handbook of Research on Non-Functional Properties for Service-Oriented Systems: Future Directions unites different approaches and methods used to describe, map, and use non-functional properties and service level agreements. This handbook, which will be useful for both industry and academia, provides an overview of existing research and also sets clear directions for future work.

Depth Map and 3D Imaging Applications: Algorithms and Technologies
Aamir Saeed Malik (Universiti Teknologi Petronas, Malaysia), Tae-Sun Choi (Gwangju Institute of Science and Technology, Korea), and Humaira Nisar (Universiti Tunu Abdul Rahman, Malaysia)

Depth Map and 3D Imaging Applications: Algorithms and Technologies presents various 3D algorithms developed in the recent years and to investigate the application of 3D methods in various domains. Containing five sections, this book offers perspectives on 3D imaging algorithms, 3D shape recovery, stereoscopic vision and autostereoscopic vision, 3D vision for robotic applications, and 3D imaging applications. This book is an important resource for professionals, scientists, researchers, academics, and software engineers in image/video processing and computer vision.

Quantitative Semantics and Soft Computing Methods for the Web: Perspectives and Applications
Ramón F. Brena (Tecnológico de Monterrey, Mexico) and Adolfo Guzman-Arenas (Tecnológico de Monterrey and CIC-IPN, Mexico)

Quantitative Semantics and Soft Computing Methods for the Web: Perspectives and Applications will provide relevant theoretical frameworks and the latest empirical research findings related to quantitative, soft-computing and approximate methods for dealing with Internet semantics. The target audience of this book is composed of professionals and researchers working in the fields of information and knowledge related technologies (e.g., Information sciences and technology, computer science, Web science, and artificial intelligence).

Understanding the Interactive Digital Media Marketplace: Frameworks, Platforms, Communities and Issues
Ravi S. Sharma (Nanyang Technological University, Singapore), Margaret Tan (Nanyang Technological University, Singapore), and Francis Pereira (University of Southern California, USA)

Understanding the Interactive Digital Media Marketplace: Frameworks, Platforms, Communities and Issues presents the results of a large, industry-oriented, multi-national research program. This research seeks to discover usable business models, technology platforms, market strategies and policy frameworks for the emerging global digital economy, particularly for digital media researchers and industry entrepreneurs who wish to reach users around the world.
Mobile Technology Consumption: Opportunities and Challenges
Barbara Ciaramitaro (Ferris State University, USA)

Mobile Technology Consumption: Opportunities and Challenges explores essential questions related to the cost, benefit, individual and social impact, and security risks associated with the rapid consumption of mobile technology. This book presents the current state of mobile technologies and their use in various domains including education, healthcare, government, entertainment, and emerging economic sectors.

Media in the Ubiquitous Era: Ambient, Social and Gaming Media
Artur Lugmayr (Tampere University of Technology, Finland), Helja Franssila (University of Tampere, Finland), Perdi Näränen (TAMK University of Applied Sciences, Finland), Olli Sotamaa (University of Tampere, Finland), Jukka Vanhala (Tampere University of Technology, Finland), and Zhiven Yu (Northwester Polytechnical University, China)

Media in the Ubiquitous Era: Ambient, Social and Gaming Media focuses on the definition of ambient and ubiquitous media from a cross-disciplinary viewpoint. This book is unique in the sense that it does not only cover the field of commerce, but also science, research, and citizens. Through a set of contributions to the MindTrek, a non-profit umbrella organization for societies working in the fields of digital media and information society, this book is a must have for anyone interested in the future of this area.

Li-minn Ang (University of Nottingham, Malaysia) and Kah Phooi Seng (University of Nottingham, Malaysia)

Visual Information Processing in Wireless Sensor Networks: Technology, Trends and Applications provides a central source of reference on visual information processing in wireless sensor network environments and its technology, application, and society issues. This book is an important resource for researchers and academics working in the interdisciplinary domains of wireless sensor network technology and multimedia technology and its related areas, which include image processing, pervasive computing, embedded systems, and computer networks.

Advancements in Distributed Computing and Internet Technologies: Trends and Issues
Al-Sakib Khan Pathan (International Islamic University Malaysia (IIUM), Malaysia), Mukaddim Pathan (Australian National University, Australia), and Hae Young Lee (Electronics and Telecommunications Research Institut (ETRI), South Korea)

Advancements in Distributed Computing and Internet Technologies: Trends and Issues compiles recent research trends and practical issues in the fields of distributed computing and Internet technologies. The book provides advancements on emerging technologies that aim to support the effective design and implementation of service-oriented networks, future Internet environments and building management frameworks. Research on Internet-based systems design, wireless sensor networks and their application, and next generation distributed systems will inform graduate students, researchers, academics, and industry practitioners of new trends and vital research in this evolving discipline.

Multimedia Services and Streaming for Mobile Devices: Challenges and Innovations
Alvaro Suarez Sarmiento (Universidad de las Palmas de Gran Canaria, Spain) and Elsa Macias Lopez (Universidad de las Palmas de Gran Canaria, Spain)

Multimedia Services and Streaming for Mobile Devices: Challenges and Innovations provides tutorials, surveys, case descriptions, and original contributions that address current research findings and business success cases in multimedia services and streaming for mobile devices. This publication is useful to researchers, developers, engineers, and innovators working in multimedia services or mobile devices, as well as academics, industry professionals, and researchers who aspire to learn about recent progress and future trends in the field.

Wireless Technologies: Concepts, Methodologies, Tools and Applications (3 Vols.)
Information Resources Management Association (USA)

Wireless Technologies: Concepts, Methodologies, Tools and Applications is a three volume compendium of the latest research, case studies, theories, and methodologies within the field of wireless technologies. Wireless operations permit services, such as long range communication, that are impossible or impractical to implement with the use of wires. The ever expanding field encompasses various types of fixed, mobile, and portable two way radios, cellular telephones, personal digital assistants (PDAs), and wireless networks. This reference guide serves academics and practitioners alike, indexed and categorized easily for study and application.
Innovations, Standards, and Practices of Web Services: Emerging Research Topics
Liang-Jie Zhang (IBM, USA)

Innovations, Standards, and Practices of Web Services: Emerging Research Topics provides a vital new compendium of the latest research topics in the field of Web Services. As a set of tools that can be used in a number of ways, Web services continue to evolve as the Internet expands its capabilities and users. Detailing the functions of service composition, and the most relevant models that modify its construction, this volume serves as a vital reference for practitioners, students, and academics alike.

Ubiquitous Multimedia and Mobile Agents: Models and Implementations
Sumit Bagchi (Gyeongsang National University, South Korea)

Ubiquitous Multimedia and Mobile Agents: Models and Implementations provides the hybridization of two paradigms, namely, ubiquitous/mobile multimedia and mobile agents, where mobile agents act as the platform to realize mobile multimedia delivery infrastructure. Ubiquitous multimedia systems involve user/creator authentication, media adaptation, data delivery over wireless network, QoS awareness, and user-mobility management. On the other hand, mobile agent technology is appropriate for the realization of a wide range of high-end mobile applications. Agents and mobile agents are capable of tackling various challenges faced by mobile multimedia delivery infrastructure. This book serves as an excellent reference for the latest research and models in ubiquitous multimedia.

Signal Processing, Perceptual Coding and Watermarking of Digital Audio: Advanced Technologies and Models
Xing He (BrainMedia LLC, USA)

Signal Processing, Perceptual Coding and Watermarking of Digital Audio: Advanced Technologies and Models focuses on watermarking, in which data is marked with hidden ownership information, as a promising solution to copyright protection issues. Compared to embedding watermarks into still images, hiding data in audio is much more challenging due to the extreme sensitivity of the human auditory system to changes in the audio signal. This book focuses on understanding human perception processes and including them in effective psychoacoustic models, as well as synchronization, which is an important component of a successful watermarking system.

Performance and Dependability in Service Computing: Concepts, Techniques and Research Directions
Valeria Cardellini (Università di Roma, Italy), Emiliano Casalicchio (Università di Roma, Italy), Kalinka Regina Lucas Jaquie Castelo Branco (Universidade de São Paulo, Brazil), Júlio Cezar Estrella (Universidade de São Paulo, Brazil), and Francisco José Monaco (Universidade de São Paulo, Brazil)

Performance and Dependability in Service Computing: Concepts, Techniques and Research Directions highlights current technological trends and related research issues in dedicated chapters without restricting their scope. This book focuses on performance and dependability issues associated with service computing and these two complementary aspects, which include concerns of quality of service (QoS), real-time constraints, security, reliability and other important requirements when it comes to integrating services into real-world business processes and critical applications.

Multiple Sensorial Media Advances and Applications: New Developments in MultiMedia
George Ghinea (Brunel University, UK), Frederic Andres (CVCE/NII, Luxembourg) and Stephen Gulliver (University of Reading, UK)

Multiple Sensorial Media Advances and Applications: New Developments in MultiMedia provides a comprehensive compilation of knowledge covering state-of-the-art developments and research, as well as current innovative activities in MultiMedia. This book focuses on the importance of MultiSensorial Media and its importance in media design with an emphasis on the applicability to real world integration and provides a broad perspective on the future of the technology in a variety of cohesive topic areas.

Recent Advances in Broadband Integrated Network Operations and Services Management
Varadharajan Sridhar (Sasken Communication Technologies, India) and Debashis Saha (Indian Institute of Management Calcutta, India)

Recent Advances in Broadband Integrated Network Operations and Services Management covers the principles of both wired and wireless communications of voice, data, images, and video and the impact of their business values on the organizations in which they are used. This reference book includes theoretical and practical works, relevant case studies, topical surveys, and research articles that address problems faced by telecommunication service providers, equipment manufacturers, enterprises, and policy makers in the areas of data communications and networking.
Advanced Communication Protocol Technologies: Solutions, Methods, and Applications

Katalin Tarnay (University of Pannonia, Hungary), Gusztáv Adamis (Budapest University of Technology and Economics, Hungary), and Tibor Dulai (University of Pannonia, Hungary)

Advanced Communication Protocol Technologies: Solutions, Methods, and Applications explores the complications and solutions created by communication required between ever-expanding technologies. The research in this book encompasses the fundamentals of protocol functions and protocol operations, the controlling protocols of ISDN and mobile networks, the evolution of IP-based protocols, and advanced solutions for routing, mobility and multimedia transmission. Finally, this book addresses the various special applications in this ever important field.

Semantic Services, Interoperability and Web Applications: Emerging Concepts

Amit P. Sheth (Kno.e.sis Center, Wright State University, USA)


Discoveries in Gaming and Computer-Mediated Simulations: New Interdisciplinary Applications

Richard E. Ferdig (Kent State University, USA)

Discoveries in Gaming and Computer-Mediated Simulations: New Interdisciplinary Applications explores and promotes a deep conceptual and empirical understanding of the roles of electronic games and computer-mediated simulations across multiple disciplines. This book helps build a significant bridge between research and practice on electronic gaming and simulations, supporting the work of researchers, practitioners, and policymakers. Drawing on history allows this publication to help move this field forward.

Business, Technological, and Social Dimensions of Computer Games: Multidisciplinary Developments

Maria Manuela Cruz-Cunha (Polytechnic Institute of Cávado and Ave, Portugal), Vítor Hugo Costa Carvalho (Polytechnic Institute of Cávado and Ave, Portugal), and Paula Cristina Almeida Tavares (Polytechnic Institute of Cávado and Ave, Portugal)

Business, Technological and Social Dimensions of Computer Games: Multidisciplinary Developments is a collection of the most recent developments in all areas of game development, encompassing planning, design, marketing, business management, and consumer behavior. This publication explores a number of aspects of gaming, which include supporting technologies, human interaction, psychological and behavioral effects, business opportunities, and intellectual property considerations, offering readers a complete perspective on the evolution of games and gaming technologies.

Computer Games as Educational and Management Tools: Uses and Approaches

Maria Manuela Cruz-Cunha (Polytechnic Institute of Cávado and Ave, Portugal), Vítor Hugo Costa Carvalho (Polytechnic Institute of Cávado and Ave, Portugal), and Paula Cristina Almeida Tavares (Polytechnic Institute of Cávado and Ave, Portugal)

Computer Games as Educational and Management Tools: Uses and Approaches considers the many uses of games and simulations, focusing specifically on their use in organizational and educational settings. Providing perspectives on gaming for distance learning, gaming for rehabilitation, business simulators, and motivational games, this publication explores new and emerging trends in this ever-evolving area of research.

Pervasive Computing and Communications Design and Deployment: Technologies, Trends and Applications

Apostolos Malatras (University of Fribourg, Switzerland)

Pervasive Computing and Communications Design and Deployment: Technologies, Trends, and Applications has a broad scope since it is intended to provide an overview on the general and interdisciplinary topic of pervasive computing and communications. Particular aspects studied in this book include enabling factors, key characteristics, future trends, user adoption, privacy issues and impact of pervasive computing on Information and Communications Technology (ICT) and its associated social aspects. The book is intended to serve as a reference for computer science practitioners, students and researchers, covering design principles and relevant implementation techniques and technologies regarding pervasive computing.
E-Activity and Intelligent Web Construction: Effects of Social Design
Tokuro Matsuo (Yamagata University, Japan) and Takayuki Fujimoto (Toyo University, Japan)

E-Activity and Intelligent Web Construction: Effects of Social Design presents the crux of the interdisciplinary concerns of meshing artificial intelligence and web technologies for maximizing the effectiveness of the available technologies. From business value and e-innovation to 3D modeling and infrastructure construction, this book delves into the research defining the web technologies of the future and the possibilities represented by each advance in this field.

Web Engineered Applications for Evolving Organizations: Emerging Knowledge
Ghazi I. Alkhatib (Applied Science University, Jordan)

Web Engineered Applications for Evolving Organizations: Emerging Knowledge explores integrated approaches to IT and Web engineering, offering solutions and best practices for knowledge exchange within organizations. This publication focuses on research in a number of related disciplines, including data knowledge storage and retrieval, intelligent information systems, IT education and training, and IT readiness.

Interdisciplinary and Multidimensional Perspectives in Telecommunications and Networking: Emerging Findings
Michael R. Bartoliacci (Pennsylvania State University-Berks, USA) and Steven R. Powell (California State Polytechnic University - Pomona, USA)

Interdisciplinary and Multidimensional Perspectives in Telecommunications and Networking: Emerging Findings offers research on new technologies, models, security issues, and telecommunications and networking applications that are informed by disciplines including electrical engineering, computer science, and information technology. Offering interdisciplinary perspectives on telecommunications and networking issues and problems, this publication provides case studies and research findings useful to researchers and students in a number of related fields.

Innovations in Mobile Multimedia Communications and Applications: New Technologies
Ismail Khalil (Johannes Kepler University Linz, Austria) and Edgar Weippl (SBA Research, Austria)

Innovations in Mobile Multimedia Communications and Applications: New Technologies presents a strong understanding of Portals, SOA, the published research in these fields, as well as providing an enterprise-based experience of factors that challenge implementation of Portal and SOA projects in practice. This book includes a balance of background information, summarizing the state of a particular area, and new research that is previously unpublished. These include trends in Portal technology, Service Oriented Architecture, Business issues in Portal and SOA uptake, among others.

Handbook of Research on Mobility and Computing: Evolving Technologies and Ubiquitous Impacts (2 Vols.)
Maria Manuela Cruz-Cunha (Polytechnic Institute of Cavado and Ave, Portugal) and Fernando Moreira (Portucalense University, Portugal)

The Handbook of Research on Mobility and Computing: Evolving Technologies and Ubiquitous Impacts discusses the main issues, challenges, opportunities, and trends related to this explosive range of new developments and applications, in constant evolution, and impacting every organization and society as a whole. This two volume handbook supports post-graduate students, teachers, and researchers, as well as IT professionals and managers. It is a valuable addition to any research collection.
Designing Games for Ethics: Models, Techniques and Frameworks
Karen Schrier (Columbia University, USA) and David Gibson (University of Vermont, USA)

Designing Games for Ethics: Models, Techniques and Frameworks brings together the diverse and growing community of voices and begins to define the field, identify its primary challenges and questions, and establish the current state of the discipline. Such a rigorous, collaborative, and holistic foundation for the study of ethics and games is necessary to appropriately inform future games, policies, standards, and curricula.

Non-Functional Properties in Service Oriented Architecture: Requirements, Models and Methods
Nikola Milanovic (Model Labs, Germany)

Non-Functional Properties in Service Oriented Architecture: Requirements, Models and Methods offers a selection of chapters that cover three important aspects related to the use of non-functional properties in SOA: requirements specification with respect to non-functional properties, modeling non-functional properties and implementation of non-functional properties. This book serves as both a practical reference and an advanced scientific source for those interested in current issues, new trends, and yet-unresolved areas of the discipline.

Online Multimedia Advertising: Techniques and Technologies
Xian-Sheng Hua (Microsoft Research Asia), Tao Mei (Microsoft Research Asia), and Alan Hanjalic (Delft University of Technology, Netherlands)

Online Multimedia Advertising: Techniques and Technologies unites recent research efforts in online multimedia advertising. This book includes introductions to basic concepts and fundamental technologies for online advertising, basic multimedia technologies for online multimedia advertising, and modern multimedia advertising schemes, theories and technologies.

Geospatial Web Services: Advances in Information Interoperability
Peisheng Zhao (George Mason University, USA) and Liping Di (George Mason University, USA)

Geospatial Web Services: Advances in Information Interoperability provides relevant theoretical frameworks and the latest empirical research findings and applications in the area. This book highlights the strategic role of geospatial Web services in a distributed heterogeneous environment and the life cycle of geospatial Web services for building interoperable geospatial applications.
Gaming and Simulations: Concepts, Methodologies, Tools and Applications (3 Vols.)

Information Resources
Management Association (USA)

Gaming and Simulations: Concepts, Methodologies, Tools and Applications unites fundamental research on the history, current directions, and implications of gaming at individual and organizational levels. This three-volume reference explores all facets of game design and application and describes how this emerging discipline informs and is informed by society and culture.

ICTs for Mobile and Ubiquitous Urban Infrastructures: Surveillance, Locative Media and Global Networks

Rodrigo Jose Firmino (Pontifical Catholic University, Brazil), Fabio Duarte (Pontifical Catholic University, Brazil), and Clovis Ultramari (Pontifical Catholic University, Brazil)

By adopting a necessary multidisciplinary approach ICTs for Mobile and Ubiquitous Urban Infrastructures: Surveillance, Locative Media and Global Networks focuses on ICTs and new urban infrastructures to discuss how the world has been revolutionized. Discussions developed here, both theoretical and analytical, are all connected with global networks of signs, values and ideologies, locative media that gives us the freedom of spatial mobility and the possibility of creating and recreating places, and the surveillance artefacts which permeate our daily life and allow a hypothetical total control of space.

Interactive Textures for Architecture and Landscaping: Digital Elements and Technologies

Mikael Wiberg (Umea University, Sweden)

Interactive Textures for Architecture and Landscaping: Digital Elements and Technologies provides a concise theoretical foundation valuable for anyone interested in understanding the potential and impact of interactive architecture. This work is of great value for professionals including interaction designers, architects, artists, and for researchers in related disciplines and also serves as an intellectual point of reference for anyone interested in the ongoing digitalization of our built environment, our culture, and our society.

Emerging Technologies in Wireless Ad-hoc Networks: Applications and Future Development

Raul Aquino Santos (University of Colima, Mexico), Victor Rangel Licea (National Autonomous University of Mexico, Mexico), and Arthur Edwards Block (University of Colima, Mexico)

Emerging Technologies in Wireless Ad-hoc Networks: Applications and Future Development provides the rationale, state-of-the-art studies and practical applications, proof-of-concepts, experimental studies, and future development on the use of emerging technologies in wireless ad-hoc networks. In addition, this work explores emerging wireless ad hoc technologies based on communication coverage areas: body sensor networks, personal area networks, local area networks, and metropolitan area networks and their applications in critical sectors, for example, agriculture, environment, public health and public transportation.

Adoption, Usage, and Global Impact of Broadband Technologies: Diffusion, Practice and Policy

Yogesh K. Dwivedi (Swansea University, UK)

Adoption, Usage, and Global Impact of Broadband Technologies: Diffusion, Practice and Policy contains a masterful synthesis of literature intended to enhance knowledge of broadband deployment, diffusion, adoption, usage and impact from the global perspective. Including chapters from researchers with varied geographical, educational and cultural backgrounds, this book helps the reader to understand the differences in the adoption of broadband in different countries and examine comparative policy issues at national and international levels.
Stream Media Architectures, Techniques, and Applications: Recent Advances
Ce Zhu (Nanyang Technological University, Singapore), Yuenan Li (Harbin Institute of Technology, China), and Xiamu Niu (Harbin Institute of Technology, China)

Streaming Media Architectures, Techniques, and Applications: Recent Advances spans a number of interdependent and emerging topics in streaming media. Streaming media is inherently a cross-disciplinary subject that involves information theory, signal processing, communication and networking etc. Coding and transmission definitely lie in the core position in streaming media, and these research topics have been extremely active in recent years. This book is a comprehensive collection of topics including media coding, wireless/mobile video, P2P media streaming, and applications of streaming media.

Next Generation Mobile Networks and Ubiquitous Computing
Samuel Pierre (Ecole Polytechnique de Montreal, Canada)

Next Generation Mobile Networks and Ubiquitous Computing provides a comprehensive and unified view of the latest and most innovative research findings for university professors, researchers, students, and industry professionals alike. Presenting chapters by experts from across the globe, this reference offers a single body of knowledge to show the many existing interactions between mobile networking, wireless communications, and ubiquitous computing.

Mobile Information Communication Technologies Adoption in Developing Countries: Effects and Implications
Ahmed Gad Abdel-Wahab (Mansoura University, Egypt) and Ahmed Ahmed A. El-Masry (Plymouth University, UK)

Mobile Information Communication Technologies Adoption in Developing Countries: Effects and Implications reviews different approaches and methodologies used in dealing with issues related to mobile ICTs, presents successful examples mobile ICT adoption in developing countries, and addresses the impact of culture on mobile ICT adoption and deployment. The diverse coverage of mobile information communication technologies adoption in developing countries presented in this book will contribute to a better understanding of all topics, research, and discoveries in this developing, significant field of study.

Handbook of Research on Digital Media and Advertising: User Generated Content Consumption
Matthew S. Eastin (University of Texas, Austin, USA), Terry Daugherty (University of Texas, Austin), and Neal M. Burns (University of Texas, Austin)

The Handbook of Research on Digital Media and Advertising: User Generated Content Consumption bridges the gap between professional and academic perceptions of advertising in new media environments through defining the evolution of consumerism within the context of media change. Containing findings from international experts, this Handbook of Research provides coverage of practical issues related to consumer power shifts, economic issues related to media exposure, and definitions to understand the dynamics involved with consumerism.

Visual Knowledge Modeling for Semantic Web Technologies: Models and Ontologies
Gilbert Paquette (LICEF Research Center, Canada)

Visual Knowledge Modeling for Semantic Web Technologies: Models and Ontologies aims to make visual knowledge modeling available to individuals as an intellectual method and a set of tools at different levels of formalization. It aims to provide to its readers a simple, yet powerful visual language to structure their thoughts, analyze information, transform it to personal knowledge, and communicate information to support knowledge acquisition in collaborative activities.

Developing Advanced Web Services through P2P Computing and Autonomous Agents
Khaled Ragab (King Faisal University, Saudi Arabia), Tarek Helmy (King Fahd University of Petroleum and Minerals, Saudi Arabia), and Aboul Ella Hassanien (Kuwait University, Kuwait)

Developing Advanced Web Services through P2P Computing and Autonomous Agents: Trends and Innovations establishes an understanding of autonomous peer-to-peer Web Service models and developments as well as extends growing literature on emerging technologies. This scholarly publication is an important reference for researchers and academics working in the fields of peer-to-peer computing, Web and grid services, and agent technologies.
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Design and Implementation of Educational Games: Theoretical and Practical Perspectives

Pavel Zemliansky (James Madison University, USA) and Diane Wilcox (James Madison University, USA)

Design and Implementation of Educational Games: Theoretical and Practical Perspectives researches how to meet this need by effectively engaging the learner while keeping learning integral and still creating an enjoyable experience for the user. The necessity for a balance between the art and science of game design cannot be overstated, and this book presents an impressive selection of studies and analysis performed to illustrate how game components can work in concert to facilitate learning. As technology driven games become increasingly prevalent, the principles discussed, studied and demonstrated in this reference form a necessary compendium for game designers, educators, and researchers alike.

Interdisciplinary Models and Tools for Serious Games: Emerging Concepts and Future Directions

Richard Van Eck (University of North Dakota, USA)

Interdisciplinary Models and Tools for Serious Games: Emerging Concepts and Future Directions brings cross-disciplinary awareness into the study of games and learning by integrating theoretical models and myriad concepts from distinct fields of study, and applying them to digital game-based learning. Offering unique perspectives from authors worldwide, this book will provide insight and inspiration for technology educators, designers of educational or serious games, and anyone working or conducting research in the field of serious gaming.

Wireless Network Traffic and Quality of Service Support: Trends and Standards

Thomas Lagkas (University of Western Macedonia, Greece), Pantelis Angelidis (University of Western Macedonia, Greece), and Loukas Georgiadis (University of Western Macedonia, Greece)

Wireless Network Traffic and Quality of Service Support: Trends and Standards examines cutting edge approaches for the provision of Quality of Service (QoS) in wireless local area networks, presenting the latest solutions towards the optimization of the channel management and routing in infrastructure and ad hoc wireless networks. This book also analyzes traffic categorization issues and methods that can predict the available QoS, as well as managing wireless mesh networks and wireless sensor networks. It also examines the entire user experience, by treating energy conservation techniques to maximize mobile devices’ battery lifetime. It is a vital foundation for researchers dealing with the problems of today to create the new networks of the future.

Handbook of Research on Developments and Trends in Wireless Sensor Networks: From Principle to Practice

Hai Jin (Huazhong University of Science and Technology, ROC) and Wenbin Jiang (Huazhong University of Science and Technology, ROC)

The Handbook of Research on Developments and Trends in Wireless Sensor Networks: From Principle to Practice provides research in the rapidly changing world of wireless sensor networks (WSNs). These findings feature developments and studies of WSNs to provide a seedbed for new breakthroughs in this technology.

Progressive Concepts for Semantic Web Evolution: Applications and Developments

Miltiadis Lytras (University of Patras, Greece) and Amit Sheth (Wright State University, USA)

Progressive Concepts for Semantic Web Evolution: Applications and Developments unites research on essential theories, models, and applications of Semantic Web research. Contributions focus on mobile ontologies and agents, fuzzy databases, and new approaches to retrieval and evaluation in the Semantic Web.

Web Services Research for Emerging Applications: Discoveries and Trends

Liang-Jie Zhang (IBM, USA)

Web Services Research for Emerging Applications: Discoveries and Trends provides a comprehensive assessment of the latest developments in Web services, with chapters focused on composing and coordinating Web services, the design and development of Service Oriented Architectures, and XML security.
Interactive Whiteboards for Education: Theory, Research and Practice
Michael Thomas (Nagoya University of Commerce and Business, Japan) and Euline Cutrim Schmid (University of Education, Germany)

Interactive Whiteboards for Education: Theory, Research and Practice emphasizes the importance of professional development, credible educational research, and dialogue between teachers, administrators, policymakers and learners. This book intends to guide and inform the process of technology integration in education, introducing valuable case studies for educators interested in present and future IWB technology.

Serious Game Design and Development: Technologies for Training and Learning
Janis Cannon-Bowers (University of Central Florida, USA) and Clint Bowers (University of Central Florida, USA),

Serious Game Design and Development: Technologies for Training and Learning examines high-tech delivery of pedagogical content in a simulated environment that engenders a deeper learning in an entertaining manner. Containing research from international experts, this leading publication within the field bridges the gap between development and science.

Handheld Computing for Mobile Commerce: Applications, Concepts and Technologies
Wen-Chen Hu (University of North Dakota, USA) and Yanjun Zuo (University of North Dakota, USA)

Handheld Computing for Mobile Commerce: Applications, Concepts and Technologies offers 22 outstanding chapters from 71 world-renowned scholars and IT professionals covering themes such as handheld computing for mobile commerce, handheld computing research and technologies, wireless networks and handheld/mobile security, and handheld images and video. It includes research and development results of lasting significance in the theory, design, implementation, analysis, and application of handheld computing. This book is essential for IT students, researchers, and professionals seeking to better understand handheld devices and concepts, thereby producing more useful and effective handheld applications and products.

Quality and Communicability for Interactive Hypermedia Systems: Concepts and Practices for Design
Francisco V. Cipolla-Ficarra (Alaipo, Italy)

Quality and Communicability for Interactive Hypermedia Systems: Concepts and Practices for Design explores ways to overcome obstacles to successful communication from theories of communicability to the various levels of design and integration. With a heuristic focus on how current system design affects user understanding, this reference source goes beyond simple usability and fills an important gap in present research by illustrating the importance of communicability in modern technological advancements.

Networking and Telecommunications: Concepts, Methodologies, Tools and Applications (3 Vols.)
Information Resources Management Association (USA)

Networking and Telecommunications: Concepts, Methodologies, Tools, and Applications exhibits the most up-to-date collection of research results and recent discoveries in the transfer of knowledge access across the globe. Considering the burgeoning need for global contact and communication, this significant publication provides a one-stop reference for researchers, administrators, executives, and practitioners.

Web Engineering Advancements and Trends: Building New Dimensions of Information Technology
Ghazi Alkhatib (Applied Science University - Amman and Jordan), David Rine (George Mason University, USA)

Web Engineering Advancements and Trends: Building New Dimensions of Information Technology examines integrated approaches in new dimensions of social and organizational knowledge sharing with emphasis on intelligent and personalized access. A defining collection of field advancements, this publication provides research, applications, and techniques in testing and validation of Web systems.
Integrating Usability Engineering for Designing the Web Experience: Methodologies and Principles
Tsatos Spiliotopoulos (National and Kapodistrian University of Athens, Greece), Panagiota Papadopoulou (National and Kapodistrian University of Athens, Greece), Drakoulis Martakos (National and Kapodistrian University of Athens, Greece), and Georgios Kouroupetroglou (National and Kapodistrian University of Athens, Greece)

Integrating Usability Engineering for Designing the Web Experience: Methodologies and Principles provides a link between theoretical research and Web engineering, presenting a more holistic approach to Internet serviceability. Containing analysis from leading international experts, this publication offers new insights on applications that enable or facilitate the development of usable Web systems.

Fourth-Generation Wireless Networks: Applications and Innovations
Sasan Adibi (University of Waterloo, Canada) and Amin Mobasher (Research in Motion (RIM), Canada), and Mostafa TofghiBakhsh (AT&T Labs, USA)

Fourth-Generation Wireless Networks: Applications and Innovations presents a comprehensive collection of recent findings in access technologies useful in the architecture of wireless networks. Based on research results from academia and industry, this innovative publication covers cutting-edge findings on topics such as 4G security, mobile technologies, and handover mechanisms.

Handbook of Research on Web 2.0, 3.0, and X.0: Technologies, Business, and Social Applications
San Murugesan (Multimedia University, Malaysia & University of Western Sydney, Australia)

The Handbook of Research on Web 2.0, 3.0, and X.0: Technologies, Business, and Social Applications covers the latest applications of Web technologies including Web securities, virtual reality commerce systems, and social bookmarking. This Handbook of Research discusses real-world examples and case studies valuable to academicians, researchers, and practitioners.

Multimodality in Mobile Computing and Mobile Devices: Methods for Adaptable Usability
Stan Kurkovsky (Central Connecticut State University, USA)

Multimodality in Mobile Computing and Mobile Devices: Methods for Adaptable Usability explores a variety of perspectives on multimodal user interface design, describes a variety of novel multimodal applications, and provides real-life experience reports. This innovative publication presents core concepts that define multi-modal, multi-channel, and multi-device interactions.
Web-Based Supply Chain Management and Digital Signal Processing: Methods for Effective Information Administration and Transmission
Manjunath Ramachandra (MSR School of Advanced Studies, India)

Web-Based Supply Chain Management and Digital Signal Processing: Methods for Effective Information Administration and Transmission presents trends and techniques for successful intelligent decision-making and transfer of products through digital signal processing. This publication provides the latest and most complete research in supply chain management with examples and case studies.

Cases on Semantic Interoperability for Information Systems Integration: Practices and Applications
Yannis Kalfoglou (University of Southhampton, UK)

Cases on Semantic Interoperability for Information Systems Integration: Practices and Applications provides an in-depth analysis of issues involved with the application of semantic interoperability to information assimilation tasks followed by field professionals. This significant collection of research explains in-depth issues involving the integration of large amounts of heterogeneous information.

Optical Access Networks and Advanced Photonics: Technologies and Deployment Strategies
Ioannis P. Chochliouros (Hellenic Telecommunications Organization S.A., Greece) and George A. Heliotis (Hellenic Telecommunications Organization S.A., Greece)

Optical Access Networks and Advanced Photonics: Technologies and Deployment Strategies presents a comprehensive overview of emerging optical access network solutions to efficiently meet the anticipated growth in bandwidth demand. This book provides the latest technology trends in order to grasp the expected beneficial use of optical access infrastructures.

Cooperative Communications for Improved Wireless Network Transmission: Framework for Virtual Antenna Array Applications
Murat Uysal (University of Waterloo, Canada)

Cooperative Communications for Improved Wireless Network Transmission: Framework for Virtual Antenna Array Applications provides fundamental principles of cooperative communication, presenting the latest advances in this rapidly evolving field. This Premier Reference Source offers readers diverse findings and exposes underlying issues in the analysis, design, and optimization of wireless systems.

E-Collaboration: Concepts, Methodologies, Tools, and Applications (3 Vols.)
Ned Kock (Texas A&M International University, USA)

E-Collaboration: Concepts, Methodologies, Tools, and Applications addresses a range of e-collaboration topics through advanced research chapters authored by an international partnership of field experts. Through coverage of the latest findings, concepts, and technological advancements, this compendium of knowledge on e-collaboration expands the subject field and provides academicians, practitioners, and researchers with a defining reference collection on cutting-edge discoveries.

Web Technologies: Concepts, Methodologies, Tools, and Applications (4 Vols.)
Arthur Tatnall (Victoria University, Australia)

Web Technologies: Concepts, Methodologies, Tools, and Applications provides a comprehensive depiction of current and future trends in support of the evolution of Web information systems, Web applications, and the Internet. This multiple-volume reference supplies audiences with an authoritative source for the further development of the Internet and Web-based phenomena.
New developments in the field of medicine have allowed for revolutionary breakthroughs which will change the way in which medical professionals diagnose and treat various conditions. Due to the dynamic nature of the field, continual research publications are needed to assist in sharing recent medical developments and best practices internationally.

IGI Global’s **Medicine, Healthcare, and Life Sciences** subject area presents publications on the latest developments in the fields such as medicine, chemistry, biology, and pharmacology. Titles within this subject area seek to uncover the latest trends in the field and are especially appropriate for reference by academicians, medical practitioners, professionals working in healthcare administration, and students.
Assistive Technologies for Physical and Cognitive Disabilities
Lau Bee Theng
(Swinnburne University of Technology, Malaysia)

Assistive Technologies for Physical and Cognitive Disabilities combines worldwide cases on people with physical and cognitive disabilities with the latest applications in assistive technologies. This reference work brings different researchers together under one title to discuss current findings, developments, and ongoing research in the area of rehabilitative technology. This reference book is of critical use to professionals, researchers, healthcare practitioners, caretakers, academicians, and students.

Fuzzy Expert Systems for Disease Diagnosis
A.V. Senthil Kumar
(Hindustan College of Arts and Science, India)

Fuzzy Expert Systems for Disease Diagnosis highlights the latest research and developments in fuzzy rule-based methods used in the detection of medical complications and illness. Offering emerging solutions and practical applications, this timely publication is designed for use by researchers, academicians, and students, as well as practitioners in the medical field.

Handbook of Research on Computerized Occlusal Analysis Technology Applications in Dental Medicine (2 Vols.)
Robert B. Kerstein, DMD (Former clinical professor at Tufts University School of Dental Medicine, USA & Private Dental Practice Limited to Prosthodontics and Computerized Occlusal Analysis, USA)

The Handbook of Research on Computerized Occlusal Analysis Technology Applications in Dental Medicine explores the use of digital tools in dentistry, including their evolution as well as evidence-based research on the benefits of technological tools versus non-digital occlusal indicators. Comprised of current research on clinical applications and technologies, this publication is ideal for use by clinicians, educators, and upper-level students in dentistry.

Big Data Analytics in Bioinformatics and Healthcare
Baoying Wang (Waynesburg University, USA), Ruowang Li (Pennsylvania State University, USA), and William Perrizo (North Dakota State University, USA)

Big Data Analytics in Bioinformatics and Healthcare merges the fields of biology, technology, and medicine in order to present a comprehensive study on the emerging information processing applications necessary in the field of electronic medical record management. Complete with interdisciplinary research resources, this publication is an essential reference source for researchers, practitioners, and students interested in the fields of biological computation, database management, and health information technology, with a special focus on the methodologies and tools to manage massive and complex electronic information.

Healthcare Administration: Concepts, Methodologies, Tools, and Applications (3 Vols.)
Information Resources Management Association (USA)

Healthcare Administration: Concepts, Methodologies, Tools, and Applications brings together recent research and case studies in the medical field to explore topics such as hospital management, delivery of patient care, and telemedicine, among others. With a focus on some of the most groundbreaking new developments as well as future trends and critical concerns, this three-volume reference source will be a significant tool for medical practitioners, hospital managers, IT administrators, and others actively engaged in the healthcare field.

Flipping Health Care through Retail Clinics and Convenient Care Models
Amer Kaisi (Trinity University, USA)

Flipping Health Care through Retail Clinics and Convenient Care Models addresses the present state of the healthcare system by focusing on current trends and future developments that could assist in delivering accessible and cost-effective medical care to the general public. Bringing together components of the present and future, this publication serves as an essential tool for students and researchers who want to develop a thorough understanding of the changing scope of the health industry in the public sphere.
Healthcare Informatics and Analytics: Emerging Issues and Trends
Madjid Tavana (La Salle University, USA), Amir Hossein Ghapanchi (Griffith University, Australia), and Amir Talaei-Khoei (University of Technology, Sydney, Australia)

Healthcare Informatics and Analytics: Emerging Issues and Trends introduces the latest research concerning the innovative implementation of information technology and data analysis in the healthcare field. Highlighting current concerns and recent advances in patient care and healthcare delivery, this book is a comprehensive reference source for academics, researchers, medical students, and healthcare practitioners interested in the application of information science within the health sector.

Laboratory Management Information Systems: Current Requirements and Future Perspectives
Anastasios Moumtzoglou (Hellenic Society for Quality and Safety in Healthcare, Greece & P. & A. Kyriakou Children's Hospital, Greece), Anastasia Kastania (Athens University of Economics and Business, Greece), and Stavros Archondakis (Military Hospital of Athens, Greece)

Laboratory Management Information Systems: Current Requirements and Future Perspectives responds to the issue of administering appropriate regulations in a medical laboratory environment in the era of telemedicine, electronic health records, and other e-health services. Exploring concepts such as the implementation of ISO 15189:2012 policies and the effects of e-health application, this book is an integral reference source for researchers, academicians, students of health care programs, health professionals, and laboratory personnel.

Cloud Computing Applications for Quality Health Care Delivery
Anastasios Moumtzoglou (Hellenic Society for Quality and Safety in Healthcare, Greece & P. & A. Kyriakou Children's Hospital, Greece), and Anastasia Kastania (Athens University of Economics and Business, Greece)

Cloud Computing Applications for Quality Health Care Delivery focuses on cloud technologies that could affect quality in the healthcare field. Leading experts in this area offer their knowledge and contribute to the demystification of healthcare in the Cloud. This publication will prove to be a useful tool for undergraduate and graduate students of healthcare quality and management, healthcare managers, and industry professionals.

Enhancing the Human Experience through Assistive Technologies and E-Accessibility
Christos Kouroupetroglou (Careta-Net Technologies, Greece)

Enhancing the Human Experience through Assistive Technologies and E-Accessibility discusses trends in ICT in relation to assistive technologies and their impact on everyday tasks for those with disabilities. This reference work provides different perspectives on upcoming technologies and their impact on e-accessibility and e-inclusion, essential topics for researchers, businesses, and ICT product developers in the field of assistive technologies.

Achieving Effective Integrated E-Care Beyond the Silos
Ingo Meyer (empirica, Germany), Sonja Müller (empirica, Germany) and Lutz Kubitschke (empirica, Germany)

Achieving Effective Integrated E-Care Beyond the Silos presents a collection of real-life examples, frameworks, business models, financial implications, and methods of evaluating the technological tools that are enabling a more human-centered approach to health and social care. Based on relevant research in the field of integrated e-care, this publication is ideally designed for use by practitioners, researchers, and decision-makers in the care field.

Medical Diagnosis Using Artificial Neural Networks
Sara Moein (Texas A&M University, USA)

Medical Diagnosis Using Artificial Neural Networks introduces effective parameters for improving the performance and application of machine learning and pattern recognition techniques to facilitate medical processes. This book is an essential reference work for academicians, professionals, researchers, and students interested in the relationship between artificial intelligence and medical science through the use of informatics to improve the quality of medical care.
Social Media and Mobile Technologies for Healthcare

Mowafq Househ (College of Public Health and Health Informatics, King Saud Bin Abdulaziz University for Health Sciences, Saudi Arabia), Elizabeth Borycki (University of Victoria, Canada), and Andre Kushniruk (University of Victoria, Canada)

Social Media and Mobile Technologies for Healthcare provides insight into the tools that are integral to understanding and implementing emerging technologies in health-related fields. With an ever-growing presence of patients and health professionals on social networking sites, this book will provide insight into the effect of communication technologies on health services. This publication is useful for professionals and researchers in health informatics, as well as students, practitioners, clinicians, and academics.

Handbook of Research on Adult and Community Health Education: Tools, Trends, and Methodologies

Victor C. X. Wang (Florida Atlantic University, USA)
The Handbook of Research on Adult and Community Health Education: Tools, Trends, and Methodologies presents educational and social science perspectives on the state of the healthcare industry and the information technologies surrounding it. It presents a collection of the latest research on methods, programs, and procedures practiced by health literate societies. This groundbreaking compilation provides cutting-edge content for researchers, social scientists, academicians, and adult educators and learners interested in how available technologies affect our health today.

Emerging Theory and Practice in Neuroprosthetics

Ganesh R. Naik (University of Technology Sydney (UTS), Australia) and Yina Guo (Taiyuan University of Science and Technology, China)

Emerging Theory and Practice in Neuroprosthetics brings together the most up-to-date research surrounding neuroprosthetics advances and applications. Presenting several new results, concepts, and further developments in the area of neuroprosthetics, this book is an essential publication for researchers, upper-level students, engineers, and medical practitioners.

Global Issues and Ethical Considerations in Human Enhancement Technologies

Steven John Thompson (Johns Hopkins University, USA)

Global Issues and Ethical Considerations in Human Enhancement Technologies compiles prestigious research and provides a well-rounded composite of the field's role in emerging technologies. Addressing both present and future concerns, this publication serves as a valuable reference work for researchers, students, professionals, and practitioners involved in computer science and the humanities, as well as many engaged in a humanities approach to metasystems, new artificial life, and robotics.

Applications, Challenges, and Advancements in Electromyography Signal Processing

Ganesh R. Naik (University of Technology Sydney (UTS), Australia)

Applications, Challenges, and Advancements in Electromyography Signal Processing provides an updated overview of signal processing applications and recent developments in EMG from a number of diverse aspects and various applications in clinical and experimental research. Presenting new results, concepts, and further developments in the field of EMG signal processing, this publication is an ideal resource for graduate and post-graduate students, academicians, engineers, and scientists in the fields of signal processing and biomedical engineering.
Labor and Health Economics in the Mediterranean Region: Migration and Mobility of Medical Doctors
Ahmed Driouchi (Al Akhawayn University, Morocco)

Labor and Health Economics in the Mediterranean Region: Migration and Mobility of Medical Doctors addresses the mobility of physicians in the Mediterranean region within a global context, focusing on the role mobility has played in the global health system in both developed and developing economies. Besides universities and researchers, public and private medical practitioners and agencies can make use of this book to further their knowledge of the changing healthcare industry.

Advancing Medical Practice through Technology: Applications for Healthcare Delivery, Management, and Quality
Joel Rodrigues (Instituto de Telecomunicações, University of Beira Interior, Portugal)

Advancing Medical Practice through Technology: Applications for Healthcare Delivery, Management, and Quality focuses on the latest medical practices through the utilization of technologies and innovative concepts. This book is an essential reference source for researchers, academics, and industry professionals interested in the latest advancements in the healthcare, biomedicine, and medical communications fields.

Handbook of Research on Patient Safety and Quality Care through Health Informatics
Vaughan Michell (University of Reading, UK), Deborah J. Rosenorn-Lanng (Royal Berkshire Hospital Foundation Trust Reading, UK), Stephen R. Gulliver (University of Reading, UK), and Wendy Currie (Audencia, Ecole de Management, Nantes, France)

The Handbook of Research on Patient Safety and Quality Care through Health Informatics highlights current research and trends from both professionals and researchers on health informatics as applied to the needs of patient safety and quality care. Bringing together theory and practical approaches for patient needs, this book is essential for educators and trainers at multiple experience levels in the fields of medicine and medical informatics.

Assistive Technologies and Computer Access for Motor Disabilities
Georgios Kouroupetroglou (University of Athens, Greece)

Assistive Technologies and Computer Access for Motor Disabilities investigates solutions to the problem of technology access by highlighting the principles, methods and advanced technological solutions for all those with motor impairments. This reference source is beneficial to academia, industry, and various professionals in disciplines such as rehabilitation scientists, occupational therapists, human-computer interface developers, ergonomists, and teachers in inclusive and special education. This publication is integrated with its pair book Disability Informatics and Web Accessibility for Motor Limitations.

Disability Informatics and Web Accessibility for Motor Limitations
Georgios Kouroupetroglou (University of Athens, Greece)

Disability Informatics and Web Accessibility for Motor Limitations explores the principles, methods, and advanced technological solutions in the use of assistive technologies to enable users with motor limitations. This book is essential for academia, industry, and various professionals in fields such as web application designers, rehabilitation scientists, ergonomists, and teachers in inclusive and special education. This publication is integrated with its pair book Assistive Technologies and Computer Access for Motor Disabilities.

Natural Computing for Simulation and Knowledge Discovery
Leandro Nunes de Castro (Mackenzie University, Brazil)

Natural Computing for Simulation and Knowledge Discovery investigates the latest developments in nature-inspired technologies. Within its pages, readers will find an in-depth analysis of such advances as cryptographic solutions based on cell division, the creation and manipulation of biological computers, and particle swarm optimization techniques. Scientists, practitioners, and students in fields such as computing, mathematics, and molecular science will make use of this essential reference to explore current trends in natural computation and advance nature-inspired technologies to the next generation.
Research Perspectives on the Role of Informatics in Health Policy and Management

Christo El Morr (York University, Canada)

Research Perspectives on the Role of Informatics in Health Policy and Management focuses on the advancements of Health Information Science in order to solve current and forthcoming problems in the health sector. Managers and policy makers, Masters and PhD students, and researchers in healthcare related fields will use this book to widen their perspectives on healthcare delivery and develop new ideas and practices to effectively provide patients with the greatest quality care.

Cross-Cultural Training and Teamwork in Healthcare

Simona Vasilache
(Academy of Economic Studies, Bucharest)

Cross-Cultural Training and Teamwork in Healthcare explores the complex relationships between patients, physicians, and nurses with different cultural backgrounds. Integrating theoretical and empirical perspectives on medical teamwork, this book assesses the impact of diverse backgrounds among team members on the quality of care they provide so that medical practitioners, decision-makers, and educators can effectively make use of their cultural differences to provide patients with the best possible care.

Healthcare Management and Economics: Perspectives on Public and Private Administration

Mika Markus Merviö
(Kibi International University, Japan)

Healthcare Management and Economics: Perspectives on Public and Private Administration discusses public and private healthcare organizations by gathering perspectives on the differences in service, management, delivery, and efficiency. Highlighting the impact of citizens and information technology in these healthcare processes, this book is a vital collection of research for practitioners, academics, and scholars in the healthcare management field.

Handbook of Research on ICTs for Human-Centered Healthcare and Social Care Services (2 Vols.)

Maria Manuela Cruz-Cunha (Polytechnic Institute of Cavado and Ave, Portugal), Isabel Maria Miranda (Polytechnic Institute of Cavado and Ave, Portugal), and Patrícia Gonçalves (Polytechnic Institute of Cavado and Ave, Portugal)

The Handbook of Research on ICTs for Human-Centered Healthcare and Social Services is a comprehensive collection of relevant research on technology and its developments of ICTs in healthcare and social services. This book focuses on the emerging trends in the social and healthcare sectors such as social networks, security of ICTs, advisory services; and would be beneficial to researchers, scholars, students, and practitioners to further their interest in technological advancements.

Handbook of Research on ICTs and Management Systems for Improving Efficiency in Healthcare and Social Care (2 Vols.)

Maria Manuela Cruz-Cunha (Polytechnic Institute of Cavado and Ave, Portugal), et al.

The Handbook of Research on ICTs and Management Systems for Improving Efficiency in Healthcare and Social Care brings together a valuable collection on ICT elements needed to improve communication and collaboration between global health institutes, public and private organizations, and foundations. Highlighting the adoption and success factors in the development of technologies for healthcare, this book is essential for IT professionals, technology solution providers, researchers, and students interested in technology and its relationship with healthcare and social services.

Interoperability in Healthcare Information Systems: Standards, Management and Technology

Miguel-Angel Sicilia (University of Alcalá, Spain) and Pablo Serrano Balazote (Hospital de Fuenlabrada, Spain)

Interoperability in Healthcare Information Systems: Standards, Management and Technology provides a comprehensive collection on the overview of electronic health records and health services interoperability and the different aspects representing its outlook in a framework that is useful for practitioners, researchers, and decision-makers.
Bioinformatics: Concepts, Methodologies, Tools, and Applications (3 Vols.)

Information Resources Management Association (USA)

Bioinformatics: Concepts, Methodologies, Tools, and Applications highlights the area of bioinformatics and its impact over the medical community with its innovations that change how we recognize and care for illnesses. This publication provides significant research and the most recent observations that are useful for researchers, practitioners, and academicians involved in the many aspects of bioinformatics.

User-Driven Healthcare: Concepts, Methodologies, Tools, and Applications (3 Vols.)

Information Resources Management Association (USA)

User-Driven Healthcare: Concepts, Methodologies, Tools, and Applications provides a global discussion on the practice of user-driven learning in healthcare and connected disciplines and its influence on learning through clinical problem solving. This book brings together different perspectives for researchers and practitioners to develop a comprehensive framework of user-driven healthcare.

Information Systems and Technologies for Enhancing Health and Social Care

Ricardo Martinho (School of Technology and Management, Polytechnic Institute of Leiria, Portugal), Rui Rijo (School of Technology and Management, Polytechnic Institute of Leiria, Portugal), Maria Manuela Cruz-Cunha (Polytechnic Institute of Cavado and Ave, Portugal), and João Eduardo Varajão (University of Trás-os-Montes e Alto Douro, Portugal)

Information Systems and Technologies for Enhancing Health and Social Care provides the latest and most relevant research on the understanding, expansion, and solutions on technologies used for improvements in the health and social care field. This book is useful for academics, industry leaders, and professionals interested in the latest advancements in technology and its impact on health care.

Telehealth Networks for Hospital Services: New Methodologies

Vincenzo Gulla (ADITech, Italy), Angelo Rossi Mori (National Research Council, Italy), Francesco Gabriele (Rome General Hospital Umberto 1, Italy), and Pietro Lanzafame (Centro Neurolesi, Italy)

Telehealth Network for Hospital Services: New Methodologies carefully focuses on and describes different networks that link hospitals and their services to patients outside their territory. This reference work not only focuses on the technology that is integral to the function of a telehealth network, but also its users, and the collaboration that is necessary to be successful. Researchers, practitioners, and health professionals interested in understanding health markets and organizations, as well as the innovative technologies that help them function, will greatly benefit from this publication.

Digital Advances in Medicine, E-Health, and Communication Technologies

Joel Rodrigues (Instituto de Telecomunicações, University of Beira Interior, Portugal)

Digital Advances in Medicine, E-Health, and Communication Technologies explores the developments and trends in medical informatics and its approaches toward telemedicine and e-health applications. This comprehensive collection of research brings together academia and industry by highlighting recent advances in electronic health, medical communications and applications for e-health and medicine.

Healthcare Information Technology Innovation and Sustainability: Frontiers and Adoption

Joseph Tan (McMaster University, Canada)

Healthcare Information Technology Innovation and Sustainability: Frontiers and Adoption presents research in the emerging field on information systems and informatics in the healthcare industry. By addressing innovative concepts and critical issues through case studies and experimental research, this reference source is useful for practitioners, researchers and academics aiming to advance the knowledge and practice of these interdisciplinary fields of healthcare information.
**Methods, Models, and Computation for Medical Informatics**  
Aryya Gangopadhyay  
(University of Maryland Baltimore County, USA)

*Methods, Models, and Computation for Medical Informatics* is a comprehensive collection of research on the computational capabilities, prototypes and algorithms and its application to the areas of nursing, clinical care, public health, biomedical research and much more. This book provides a better understanding of the models and methods used in the field of medicine for researchers, practitioners and medical professionals alike.

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**E-Health Technologies and Improving Patient Safety: Exploring Organizational Factors**  
Anastasios Moutzouroglu (Hellenic Society for Quality and Safety in Healthcare, Greece & P. & A. Kyriakou Children's Hospital, Greece) and Anastasia Kastanidou (Athens University of Economics and Business, Editor-in-Chief of the International Journal of Reliable and Quality E-Healthcare (IJRQEH), Greece)

*E-Health Technologies and Improving Patient Safety: Exploring Organizational Factors* presents an overview of information and communication technologies and their impact on the field of both patient safety and e-health and highlights a better understanding of their interaction. This book offers perspectives and research on concepts related to the areas, issues and current trends in patient safety in e-health.

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**Medical Advancements in Aging and Regenerative Technologies: Clinical Tools and Applications**  
Andriani Daskalaki  
(Max Planck Institute for Molecular Genetics, Germany)

*Medical Advancements in Aging and Regenerative Technologies: Clinical Tools and Applications* aims to translate basic science discoveries into regenerative therapies with the application of clinical tool in aging and tissue regeneration. The understanding of the characteristics affecting the aging process is an effort to guide approaches for preventing and treating age-related diseases. This book is essential for clinicians, researchers in medicine and computer science as well as graduate and undergraduate students of bioinformatics, medical informatics and related fields.

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**Biomedical Engineering and Cognitive Neuroscience for Healthcare: Interdisciplinary Applications**  
Jinglong Wu (Okayama University, Japan)

*Biomedical Engineering and Cognitive Neuroscience for Healthcare: Interdisciplinary Applications* brings together researchers and practitioners, including medical doctors and health professionals, to provide an overview of the studies of cognitive neuroscience and biomedical engineering for healthcare. This book aims to be a reference for researchers in the related field aiming to bring benefits to their own research.
Clinical Solutions and Medical Progress through User-Driven Healthcare

Rakesh Biswas (People's College of Medical Sciences, India)

Clinical Solutions and Medical Progress through User-Driven Healthcare provides comprehensive coverage and understanding of clinical problem solving in healthcare. The term "user" includes health professionals, as well as patients and anyone who uses the web with a user name. These "users" generate an information flow that "drives" the system’s workflow (hence, the choice of the term "driven"). "User-driven healthcare" aims at improved healthcare through clinical problem solving utilizing concerted experiential learning in conversations between multiple users and stakeholders, primarily patients, health professionals, and other actors in a care giving collaborative network across a web interface. Serving as a valuable source for information, this title is perfect for healthcare professionals, researchers, academic instructors, and students alike.

Computational Knowledge Discovery for Bioinformatics Research

Xiao-Li Li (Institute for Infocomm Research, A*STAR, Singapore) and See-Kiong Ng (Institute for Infocomm Research, A*STAR, Singapore)

Computational Knowledge Discovery Tools for Bioinformatics Research discusses the most significant research and latest practices in computational knowledge discovery approaches to bioinformatics in a cross-disciplinary manner which is useful for researchers, practitioners, academicians, mathematicians, statisticians, and computer scientists involved in the many facets of bioinformatics. This book aims to increase the awareness of interesting and challenging biomedical problems and to inspire new knowledge discovery solutions.

Nature-Inspired Computing Design, Development, and Applications

Leandro Nunes de Castro (Mackenzie University, Brazil)

Nature-Inspired computing Design, Development, and Applications covers all the main areas of natural computing, from methods to computationally synthesized natural phenomena, to computing paradigms based on natural materials. This volume is comprised of ideas and research from nature to develop computational systems or materials to perform computation. Researchers, academic educators, and professionals will find a comprehensive view of all aspects of natural computing with emphasis on its main branches.

Serious Games for Healthcare: Applications and Implications

Sylvester Arnab (Coventry University, UK), Ian Dunwell (Coventry University, UK), and Kurt Debattista (University of Warwick, UK)

Serious Games for Healthcare: Applications and Implications will introduce the development and application of game technologies for health-related serious games. Further, it provides cutting-edge academic research and industry updates which will inform readers about the current and future advances in the area. Encapsulating the knowledge of commercial and non-commercial researchers, developers, and practitioners in a single volume will benefit not only the research and development community within this field, but could also serve public health interests by improving awareness and outcomes.

Advancing Technologies and Intelligence in Healthcare and Clinical Environments: Breakthroughs

Joseph Tan (McMaster University, Canada)

Advancing Technologies and Intelligence in Healthcare and Clinical Environments: Breakthroughs is a prime resource for both academic researchers and practitioners looking to advance their knowledge of the interdisciplinary areas of healthcare information technology and management research. This book addresses innovative concepts and critical issues in the emerging field of health information systems and informatics, with an emphasis on sustainable computer information systems, ensuring healthcare efficiency, and denoising MRI and ECG outputs.

Telemedicine and E-Health Services, Policies, and Applications: Advancements and Developments

Joel J. P.C. Rodrigues (University of Beira Interior, Portugal), Isabel de la Torre Diez (University of Valladolid, Spain), and Beatriz Sainz de Abajo (University of Valladolid, Spain)

Telemedicine and E-Health Services, Policies, and Applications: Advancements and Developments offers a comprehensive and integrated approach to telemedicine by collecting e-health experiences and applications from around the world and by exploring new developments and trends in medical informatics. Researchers and professionals in health management, medicine, nursing, and medical informatics will find discussions of critical issues in the emerging field of e-health. The book also introduces innovative concepts and services at the leading edge of healthcare and information technology, which may enable a safer, higher quality, more equitable and sustainable health system.
Emerging Communication Technologies for E-Health and Medicine

Joel J.P.C. Rodrigues (Instituto de Telecomunicações - University of Beira Interior, Portugal)

Emerging Communication Technologies for E-Health and Medicine is a fundamental source for the advancement of knowledge, application, and practice in the interdisciplinary areas of healthcare, e-health, m-health, u-health, sensors, biomedical engineering, and telematics. Due to its grounding in research and theory evidence, this book is designed for use in graduate courses in health management, medicine, nursing, health professionals, and medical informatics. The book can help to e-health contents, applications, and interesting experiences. It is an important way to communicate e-health concepts.

Neonatal Monitoring Technologies: Design for Integrated Solutions

Wei Chen (Eindhoven University of Technology, The Netherlands), Sidarto Bambang Oetomo (Eindhoven University of Technology, The Netherlands), and Loe Feijis (Eindhoven University of Technology. The Netherlands)

Neonatal Monitoring Technologies: Design for Integrated Solutions presents a unique integration of knowledge from multidisciplinary fields of engineering, industrial design, and medical science for the healthcare of a specific user group. This comprehensive collection will support audiences ranging from clinical and medical professionals, academic researchers and students, technical professionals and managers, and policymakers of different sectors.

Pharmacoinformatics and Drug Discovery Technologies: Theories and Applications

Tagelir Mohamed Gasmelseid (King Faisal University, Saudi Arabia)

Pharmacoinformatics and Drug Discovery Technologies: Theories and Applications offers the latest field has to offer to practitioners and academics alike, presented through theoretical frameworks, case studies, and future directions. This vital resource gathers an integrated pattern of high quality publications from around the world providing current, current edge and provocative scientific work in the three domains of pharmacoinformatics: decision making domains, knowledge utilization and representation environment, and the technological and infrastructural context.

Innovations in Data Methodologies and Computational Algorithms for Medical Applications

Aryya Gangopadhyay (University of Maryland Baltimore County (UMBC), USA)

Innovations in Data Methodologies and Computational Algorithms for Medical Applications offers the most cutting edge research in the field, offering insights into case studies and methodologies from around the world. The text details the latest developments and will serve as a vital resource to practitioners and academics alike in the burgeoning field of media applications of technologies. As security and privacy improve, Electronic Health Records and informatics in the medical field are becoming ubiquitous, and staying abreast of the latest information can be difficult. This volume serves as a reference handbook and theoretical framework for the future of the field.

Handbook of Research on Biomedical Engineering Education and Advanced Bioengineering Learning: Interdisciplinary Concepts (2 Vols.)

Ziad O. Abu-Faraj (American University of Science and Technology, Lebanon)

The Handbook of Research on Biomedical Engineering Education and Advanced Bioengineering Learning: Interdisciplinary Concepts explores how healthcare practices have been steering toward emerging frontiers, including, among others, functional medical imaging, regenerative medicine, nanobiomedicine, enzyme engineering, and artificial sensory substitution. From comprehensive descriptions of state-of-the-art educational programs to a methodical treatment of the latest advancements, this book provides a solid point of reference necessary for establishing further research in this life saving field.

Machine Learning in Computer-Aided Diagnosis: Medical Imaging Intelligence and Analysis

Kenji Suzuki (University of Chicago, USA)

Machine Learning in Computer-Aided Diagnosis: Medical Imaging Intelligence and Analysis provides a comprehensive overview of machine learning research in medical decision-making based on medical images. This book covers major technical advancements and research findings in the field of Computer-Aided Diagnosis (CAD). As it demonstrates the practical applications of CAD, this book is a useful reference for professors in engineering and medical schools, students in engineering and applied-science, medical students, medical engineers, researchers in industry, academia, and health science, radiologists, cardiologists, surgeons, and healthcare professionals.
Systemic Approaches in Bioinformatics and Computational Systems Biology: Recent Advances

Paola Lecca (University of Trento, Italy), Dan Tulpan (National Research Council of Canada, Canada), and Kanagasabai Rejaraman (Institute for Infocomm Research, Singapore)

Systemic Approaches in Bioinformatics and Computational Systems Biology: Recent Advances presents new techniques that have resulted from the application of computer science methods to the organization and interpretation of biological data. The book covers three subject areas: bioinformatics, computational biology, and computational systems biology. It focuses on recent, systemic approaches in computer science and mathematics that have been used to model, simulate, and more generally, experiment with biological phenomena at any scale.

Intravascular Imaging: Current Applications and Research Developments

Vasillios D. Tsakanikas (University of Ioannina, Greece), Lampros K. Michalis (University of Ioannina, Greece), Dimitrios I. Fotiadis (University of Ioannina, Greece), Katerina K. Naia (University of Ioannina, Greece), and Christos V. Bourantas (University of Ioannina, Greece)

Intravascular Imaging: Current Applications and Research Developments presents all available intravascular imaging techniques and analyzes their impact in clinical practice and research. This publication aims to inform medical specialists, biomedical engineers, bioinformaticians, and researchers of current developments and future trends in intravascular imaging techniques, promoting continued evolution of this discipline.

Quality Assurance in Healthcare Service Delivery, Nursing and Personalized Medicine: Technologies and Processes

Athina Lazakidou (University of Peloponnese, Greece) and Andriani Daskalaki (Max Planck Institute for Molecular Genetics, Germany)

Quality Assurance in Healthcare Service Delivery, Nursing and Personalized Medicine: Technologies and Processes offers a framework for measuring quality of service in the healthcare industry as it pertains to nursing, with insight into how new technologies and the design of personalized medicine have improved quality of care and quality of life. Assessment and feedback are a vital part of developing and designing personalized medicine, and this book details case studies and the latest research in the field of healthcare service delivery assessment. In addition to describing assessment methodology, the book is also a compendium of the latest research into new medical technologies.

Biologically Inspired Networking and Sensing: Algorithms and Architectures

Pietro Lio (University of Cambridge, UK) and Dinesh Verma (IBM, USA)

Biologically Inspired Networking and Sensing: Algorithms and Architectures offers current perspectives and trends in biologically inspired networking, exploring various approaches aimed at improving network paradigms. Research contained within this compendium of research papers and surveys introduces researches in the fields of communication networks, performance modeling, and distributed computing to new advances in networking.
Gaze Interaction and Applications of Eye Tracking: Advances in Assistive Technologies

Päivi Majaranta (University of Tampere, Finland), et al.

Gaze Interaction and Applications of Eye Tracking: Advances in Assistive Technologies focuses on interactive communication and control tools based on gaze tracking, including eye typing, computer control, and gaming, with special attention to assistive technologies. For researchers and practitioners interested in the applied use of gaze tracking, the book offers instructions for building a basic eye tracker from off-the-shelf components, gives practical hints on building interactive applications, presents smooth and efficient interaction techniques, and summarizes the results of effective research on cutting edge gaze interaction applications.

Clinical Technologies: Concepts, Methodologies, Tools and Applications (3 Vols.)

Information Resources Management Association (USA)

Clinical Technologies: Concepts, Methodologies, Tools and Applications provides an exhaustive chronicle of these changes through the compiled research of hundreds of scholars. This multi-volume book delves into the many applications of information technology ranging from digitizing patient records to high-performance computing, to medical imaging and diagnostic technologies. Technological advancements have begun turning potential breakthroughs into established applications across the field of healthcare, as demonstrated by these volumes. The importance of healthcare cannot be overstated, making this work vital to everyone involved in creating the future of medicine.

Feature Selection and Ensemble Methods for Bioinformatics: Algorithmic Classification and Implementations

Oleg Okun (Malmo, Sweden)

Feature Selection and Ensemble Methods for Bioinformatics: Algorithmic Classification and Implementations offers a unique perspective on machine learning aspects of microarray gene expression based cancer classification. This multidisciplinary text is at the intersection of computer science and biology and, as a result, can be used as a reference book by researchers and students from both fields. Each chapter describes the process of algorithm design from beginning to end and aims to inform readers of best practices for use in their own research.

Early Detection and Rehabilitation Technologies for Dementia: Neuroscience and Biomedical Applications

Jinglong Wu (Okayama University, Japan)

Early Detection and Rehabilitation Technologies for Dementia: Neuroscience and Biomedical Applications provides a comprehensive collection for experts in the Neuroscience and Biomedical technology fields. Outlining various concepts from cognitive neuroscience and dementia to neural technology and rehabilitation; this book proves to bring together researchers and practitioners from diverse fields, in order to promote scientific research and industrial development in the field of early detection and rehabilitation technology of dementia.
E-Health, Assistive Technologies and Applications for Assisted Living: Challenges and Solutions

Carsten Röcker (RWTH Aachen University, Germany) and Martina Ziefle (RWTH Aachen University, Germany)

E-Health, Assistive Technologies and Applications for Assisted Living: Challenges and Solutions reviews existing literature in assistive technologies and provides suggestions and solutions for improving the quality of assisted living facilities and residences through the use of e-health systems and services.

Handbook of Research on Computational and Systems Biology: Interdisciplinary Applications

Limin Angela Liu (Shanghai Jiao Tong University, China), Dongqing Wei (Shanghai Jiao Tong University, China), Yixue Li (Shanghai Jiao Tong University, China), and Huimin Lei (Shanghai Jiao Tong University, China)

The Handbook of Research on Computational and Systems Biology: Interdisciplinary Applications summarizes some of the most recent research carried out in computational biology and systems biology to encourage and guide future study. Submissions to this comprehensive text present methods, tools, and applications developed and considered by many leading experts around the globe.

Digital Forensics for the Health Sciences: Applications in Practice and Research

Andriani Daskalaki (Max Planck Institute for Molecular Genetics, Germany)

Digital Forensics for the Health Sciences: Applications in Practice and Research discusses current applications of digital forensics in health sciences as well as the latest research in this area. This reference work covers basic concepts, best practices, common techniques, investigative challenges and, most importantly, examines the major limitations of current tools and discusses approaches that may help investigators deal with the ever-increasing size and complexity of forensic targets.

Ethical Issues and Security Monitoring Trends in Global Healthcare: Technological Advancements

Steven A. Brown (Capella University, USA) and Mary Brown (Capella University, USA)

Ethical Issues and Security Monitoring Trends in Global Healthcare: Technological Advancements identifies practices and strategies being developed using the new technologies that are available. This book encourages academics, teachers, researchers, and professionals to engage in thoughtful consideration of the impact that these tools might have on public health and safety practices.

Human-Centered Design of E-Health Technologies: Concepts, Methods and Applications

Martina Ziefle (RWTH Aachen University, Germany) and Carsten Röcker (RWTH Aachen University, Germany)

Human-Centered Design of E-Health Technologies: Concepts, Methods and Applications unites researchers and industry practitioners from different disciplines to share their domain-specific knowledge and thereby contribute to a holistic introduction into the area of human-centered design for e-health applications. The knowledge and insights provided in this book will help students, as well as systems designers, to understand the fundamental social and technical requirements future e-health systems have to meet. By providing a well-rounded introduction within one single volume, this book is equally suited as a library reference and upper-level course supplement, but also represents a first-class resource for independent study.

Smart Healthcare Applications and Services: Developments and Practices

Carsten Röcker (RWTH Aachen University, Germany) and Martina Ziefle (RWTH Aachen University, Germany)

Smart Healthcare Applications and Services: Developments and Practices provides an in-depth introduction into medical, social, psychological, and technical aspects of smart healthcare applications as well as their consequences for the design, use and acceptance of future systems. The knowledge and insights provided in this book will help students as well as systems designers understand the fundamental social and technical requirements smart healthcare technologies have to meet.
Healthcare Delivery Reform and New Technologies: Organizational Initiatives
Matthew Guah (Claiolin University, USA)

Healthcare Delivery Reform and New Technologies: Organizational Initiatives contains cross-disciplinary research on strategic initiatives for healthcare reform that impact not only patients, but also organizations, healthcare providers, and policymakers. Contributions focus on the operational as well as theoretical aspects of healthcare management, healthcare delivery processes, and patient-centered initiatives.

Theoretical and Technological Advancements in Nanotechnology and Molecular Computation: Interdisciplinary Gains
Bruce MacLennan
(University of Tennessee - Knoxville, USA)

Theoretical and Technological Advancements in Nanotechnology and Molecular Computation: Interdisciplinary Gains compiles research in areas where nanoscience and computer science meet. This book explores current and future trends that discuss areas such as, cellular nanocomputers, DNA self-assembly, and the architectural design of a “nano-brain.” The authors of each chapter have provided in-depth insight into the current state of research in nanotechnology and molecular computation as well as identified successful approaches, tools and methodologies in their research.

System and Circuit Design for Biologically-Inspired Intelligent Learning
Turgay Temel (Bahcesehir University, Turkey)

System and Circuit Design for Biologically-Inspired Intelligent Learning aims to bridge that gap in the belief that compact organization and arrangement of the circuit and system design will be a major factor in attaining the pursued benefits of biological systems. Including research from abstract fields such as psychology to more concrete topics including circuit design, this text is designed to make a smooth transition from principles to system/circuit architectures which simulate learning intelligence.

Handbook of Research on Personal Autonomy Technologies and Disability Informatics
Javier Pereira (University of A Coruna, Spain)

The Handbook of Research on Personal Autonomy Technologies and Disability Informatics proposes a comprehensive description of the needs that must be considered by IT engineers when designing technical assistance tools that can be used by disabled persons according to their specific motoric, visual, auditive, or psychic needs. Contributing basic knowledge for persons in IT development and health care related to physical and psychic disabilities, this book adds over 20 authoritative articles by international experts to the defining body of research in autonomy technologies and disability informatics.

Biological and Quantum Computing for Human Vision: Holonomic Models and Applications
Mitja Perul (University of Ljubljana, Slovenia) and Chu Kiong Loo (Multimedia University, Malaysia)

Biological and Quantum Computing for Human Vision: Holonomic Models and Applications presents an integrated model of human image processing up to conscious visual experience, based mainly on the Holonomic Brain Theory by Karl Pribram. This work researches possibilities for complementing neural models of early vision with the new preliminary quantum models of consciousness in order to construct a model of human image processing.

Evidence-Based Practice in Nursing Informatics: Concepts and Applications
Andrew Cashin (Southern Cross University, Australia) and Robyn Cook (Sidra Medical & Research Center, Qatar)

Evidence-Based Practice in Nursing Informatics: Concepts and Applications serves as a valuable asset for nurses, administrators and practitioners who want to improve their understanding of nursing informatics. Critiquing fundamental concepts such as evidence based practice, and examining possible applications of such concepts in the contemporary context of nursing informatics, this text offers chapter and case studies focusing on technology's contributions to nursing theory and practice, nursing systems management, and decision-support in nursing.
Interdisciplinary Research and Applications in Bioinformatics, Computational Biology, and Environmental Sciences

Linlin Angela Liu (Shanghai Jiao Tong University, China), et al.

Interdisciplinary Research and Applications in Bioinformatics, Computational Biology, and Environmental Sciences is a collection of cutting-edge research papers in the field of computational and systems biology contributed by leading researchers from across the globe. The studies range from the atomic/molecular level to the genomic level and present a wide spectrum of important biological problems and applications. It is a must-read for researchers in a broad range of disciplines, including computer science, chemistry, physics, math and statistics, and biological sciences.

User-Driven Healthcare and Narrative Medicine: Utilizing Collaborative Social Networks and Technologies

Rakesh Biewas (People's College of Medical Sciences, India) and Carmel Mary Martin (Northern Ontario School of Medicine, Canada)

User-Driven Healthcare and Narrative Medicine: Utilizing Collaborative Social Networks and Technologies fills this gap by exploring various individual user driven strategies that move towards solving multiple clinical system problems in healthcare, utilizing real life examples. Documenting individual concrete experiences, reflective observations, abstract conceptualizations and particular instances of active experimentation, this text is a valuable resource not only for the healthcare academic community, but patients interested in social networking to improve their own healthcare outcomes.

Genomics and Bioethics: Interdisciplinary Perspectives, Technologies and Advancements

Soraj Hongladarom (Chulalongkorn University, Thailand)

Genomics and Bioethics: Interdisciplinary Perspectives, Technologies and Advancements contributes to the existing gap in interdisciplinary research on comparative studies of cultural, social and ethical implications of genomics and bioinformatics. This work focuses on ethical, social, cultural, and legal implications of genetics, genomics and genetic databanking as they relate to concrete cultural and historical traditions.

Certification and Security in Health-Related Web Applications: Concepts and Solutions

Anargyros Chryssanthou (Hellenic Data Protection Authority, Greece), Ioannis Apostolakis (National School of Public Health, Greece), and Irakis Varlamis (Harokopio University of Athens, Greece)

Certification and Security in Health-Related Web Applications: Concepts and Solutions aims to bridge the worlds of healthcare and information technology, increase the security awareness of professionals, students and users and highlight the recent advances in certification and security in health-related Web applications.

Biomedical Diagnostics and Clinical Technologies: Applying High-Performance Cluster and Grid Computing

Manuela Pereira (University of Beira Interior, Portugal) and Mario Freire (University of Beira Interior, Portugal)

Biomedical Diagnostics and Clinical Technologies: Applying High-Performance Cluster and Grid Computing disseminates knowledge regarding high performance computing for medical applications and bioinformatics. This critical reference source contains a valuable collection of cutting-edge research chapters for those working in the broad field of medical informatics and bioinformatics.

Wireless Technologies for Ambient Assisted Living and Healthcare: Systems and Applications

Athina Lazakidou (University of Peloponisse, Greece) et al.

Wireless Technologies for Ambient Assisted Living and Healthcare: Systems and Applications provides a compendium of terms, definitions, and explanations of concepts and processes within the area of AAL. It focuses on innovative wireless solutions for smart home environments, which will positively contribute to independent living and quality of life for disabled and elderly individuals, as they rely less on caretakers and more on technology. Other topics include information and communication technologies related to health, new developments in distributed applications and interoperable systems, applications and services, wireless technologies and architectures for health monitoring systems, and wireless communication and sensor networks in smart living space.
E-Health Systems Quality and Reliability: Models and Standards

Anastasia Moumtzoglou (Hellenic Society for Quality and Safety in Healthcare, Greece) and P. A. Kyriakou Children's Hospital, Greece)

E-Health Systems Quality and Reliability: Models and Standards addresses the reason, principles and functionality of health and health care systems and presents a novel framework for revealing, understanding and implementing appropriate management interventions leading to qualitative improvement. It also provides evidence on the quality and reliability of telemedicine and reviews standards and guidelines for practicing medicine at a distance.

Advances in Face Image Analysis: Techniques and Technologies

Yu-Jin Zhang (Tsinghua University, China)

Advances in face image analysis: techniques and technologies fulfills this need, reviewing and surveying new forward-thinking research and development in face image analysis technologies. With more than 30 leading experts from around the world providing comprehensive coverage of various branches of face image analysis, this book is a valuable asset for students, researchers and practitioners engaged in the study, research and development of face image analysis techniques.

Developments in Healthcare Informatics and Healthcare Systems

Joseph Tan (McMaster University, Canada)

Developments in Healthcare Informatics and Healthcare Systems presents the latest research in healthcare informatics systems design, development, and deployment, benefitting researchers, practitioners, and students. Contributions investigate topics such as clinical education, electronic medical records, clinical decision support systems, and IT adoption in healthcare.

Biomedical Engineering and Information Systems: Technologies, Tools and Applications

Anupam Shukla (ABV – Indian Institute of Information, India) and Ritu Tiwari (ABV – Indian Institute of Information, India)

Biomedical Engineering and Information and Systems: Technologies, Tools and Applications informs researchers, clinicians, and practitioners of the latest developments in diagnostic tools, decision support systems, and intelligent devices that impact and redefine research in and delivery of medical services.

Human Resources in Healthcare, Health Informatics and Healthcare Systems

Stefane M. Kabene (Ecole des Hautes Etudes en Santé Publique, France)

Human Resources in Healthcare, Health Informatics and Healthcare Systems addresses two major problems that threaten the health of the human race. The first of which is the lack of human resources in healthcare. We need to ensure that we have an adequate number of healthcare professionals who are highly motivated and properly trained. Furthermore, we need to ensure that they have the latest health technology at their disposal, which is the second major issue facing the world today. The world’s most respected scholars and practitioners describe their experiences and propose possible theoretical and practical solutions in this relevant and timely handbook.

Chemoinformatics and Advanced Machine Learning Perspectives: Complex Computational Methods and Collaborative Techniques

Huma Lodhi (Imperial College, UK) and Yoshihiro Yamanishi (Kyoto University, Japan)

Chemoinformatics and Advanced Machine Learning Perspectives: Complex Computational Methods and Collaborative Techniques provides an overview of current research in machine learning and applications to chemoinformatics tasks. As a timely compendium of research, this book offers perspectives on key elements that are crucial for complex study and investigation.
Grid Technologies for E-Health: Applications for Telemedicine Services and Delivery
Ekaterina (Eka) Kldiashvili (Georgia Telemedicine Union, Georgia)

Grid Technologies for E-Health: Applications for Telemedicine Services and Delivery examines innovations to further improve medical management using grid computing. A defining collection of field advancements, this publication discusses the significance of automation and IT resources in healthcare technology previously infeasible due to computing and data-integration constraints.

Cellular Automata and Complex Systems: Methods for Modeling Biological Phenomena
Eleonora Bilotta (University of Calabria, Italy) and Pietro Pantano (University of Calabria, Italy)

Cellular Automata and Complex Systems: Methods for Modeling Biological Phenomena describes the use of cellular automata to provide important insights into a vast range of physical, biological, social, economic and psychological phenomena. This book presents contemporary research on discrete dynamical systems such as one-dimensional and two-dimensional cellular automata and outlines how these systems can be exploited for artistic purposes, translating their mathematical configurations into music and visual media.

Handbook of Research on Human Cognition and Assistive Technology: Design, Accessibility and Transdisciplinary Perspectives
Soonhwa Seck (University of Wisconsin-Whitewater, USA), Edward L. Meyen (University of Kansas, USA), and Boaventura DaCosta (Sectors Research Group, USA)

The Handbook of Research on Human Cognition and Assistive Technology: Design, Accessibility and Transdisciplinary Perspectives marks a critical milestone in the history of implementation and practice of assistive technology. The intent of this book is to assist researchers, practitioners, and the users of assistive technology to augment the accessibility of assistive technology by implementing human cognition into its design and practice. Consequently, this book presents assistive technology as an intervention for people with disabilities from a transdisciplinary perspective.

Ubiquitous Health and Medical Informatics: The Ubiquity 2.0 Trend and Beyond
Sabah Mohammed (Lakehead University, Canada) and Jinan Fiaidhi (Lakehead University, Canada)

Ubiquitous Health and Medical Informatics: The Ubiquity 2.0 Trend and Beyond provides insight into the various trends, innovations, and organizational challenges of contemporary ubiquitous health and medical informatics. Contributions highlight changes to healthcare distribution that will significantly revolutionize the exchange between healthcare providers and consumers.
Biomedical Knowledge Management: Infrastructures and Processes for E-Health Systems

Wayne Pease (University of Southern Queensland, Australia), Malcolm Cooper (Ritsumeikan Asia Pacific University, Japan), and Raj Gururajan (University of Southern Queensland, Australia)

Biomedical Knowledge Management: Infrastructures and Processes for E-Health Systems provides multidisciplinary best practices and experiences in knowledge management relevant to the healthcare industry. This Handbook of Research presents an in-depth examination of common approaches to shared problems in the management of knowledge within e-health services.

Healthcare and the Effect of Technology: Developments, Challenges and Advancements

Stefane M. Kabene (Ecole des Hautes Etudes en Santé Publique , France)

Healthcare and the Effect of Technology: Developments, Challenges and Advancements bridges the gap between today’s empirical research findings and healthcare practice. It provides the reader with information on current technological integrations, potential uses for technology in healthcare, and the implications—both positive and negative—of health informatics for one’s health. Technology in healthcare can improve efficiency, make patient records more accessible, increase professional communication, create global health networking, and increase access to healthcare. However, it is important to consider the ethical, relational, and cultural implications technology in healthcare may impose.

Pervasive and Smart Technologies for Healthcare: Ubiquitous Methodologies and Tools

Antonio Coronato (CNR, Italy) and Giuseppe De Pietro (CNR, Italy)

Pervasive and Smart Technologies for Healthcare: Ubiquitous Methodologies and Tools provides insight from members of prestigious universities and research institutes around the world into possible solutions for the aforementioned pressures within today’s healthcare systems. Pervasive healthcare technologies are creating a new market for higher quality and less expensive healthcare applications, making this book ideal for ICT community members willing to design and develop advanced pervasive healthcare applications, and healthcare practitioners wanting to reorganize business processes within a healthcare system so that patients are diagnosed and treated more quickly and effectively.

Cases on Health Outcomes and Clinical Data Mining: Studies and Frameworks

Patricia Cerrito (University of Louisville, USA)

Cases on Health Outcomes and Clinical Data Mining: Studies and Frameworks provides several case studies developed by faculty and graduates of the University of Louisville’s PhD program in Applied and Industrial Mathematics. The studies in this book use non-traditional, exploratory data analysis and data mining tools to examine health outcomes, finding patterns and trends in observational data. This book is ideal for the next generation of data mining practitioners.

Informatics in Oral Medicine: Advanced Techniques in Clinical and Diagnostic Technologies

Andriani Dasikaliski (Max Planck Institute for Molecular Genetics, Germany)

Informatics in Oral Medicine: Advanced Techniques in Clinical and Diagnostic Technologies provides research on current technologies in the management of problems in oral health. This collection contains valuable computational tools and the latest applications in dental and oral research topics such as artificial mouths, laser melting, and dentist appointment management.

Computer Synthesized Speech Technologies: Tools for Aiding Impairment

John Mullennix (University of Pittsburgh at Johnstown, USA), et al.

Computer Synthesized Speech Technologies: Tools for Aiding Impairment provides information to current and future practitioners that will allow them to better assist speech disabled individuals who wish to utilize CSS technology. Just as important as the practitioner’s knowledge of the latest advances in speech technology, so, too, is the practitioner’s understanding of how specific client needs affect the use of CSS, how cognitive factors related to comprehension of CSS affect its use, and how social factors related to perceptions of the CSS user affect their interaction with others. This cutting edge book addresses those topics pertinent to understanding the myriad of concerns involved with the implementation of CSS so that CSS technologies may continue to evolve and improve for speech impaired individuals.
Machine Learning for Human Motion Analysis: Theory and Practice
Liang Wang (University of Melbourne, Australia), Li Cheng (TTI-Chicago, USA) and Guoying Zhao (University of Oulu, Finland)

Biomedical Image Analysis and Machine Learning Technologies: Applications and Techniques
Fabio A. Gonzalez (National University of Colombia, Colombia), and Eduardo Romero (National University of Colombia, Colombia)

Health Information Systems: Concepts, Methodologies, Tools, and Applications (4 Vols.)
Joel Rodrigues (Instituto de Telecomunicações - University of Beira Interior, Portugal)

Handbook of Research on Developments in E-Health and Telemedicine: Technological and Social Perspectives (2 Vols.)
Maria Manuela Cunha (Polytechnic Institute of Cavado and Ave, Portugal), Antonio Jose Tavares (Polytechnic Institute of Cavado and Ave, Portugal), and Ricardo J. Simoes (Polytechnic Institute of Cavado and Ave and University of Minho, Portugal)

The Handbook of Research on Developments in E-Health and Telemedicine: Technological and Social Perspectives addresses the main issues, challenges, opportunities, and trends related to fields of online health and medical study. This compilation disseminates the latest findings in this research field to transform the way we live and deliver services.

Biocomputation and Biomedical Informatics: Case Studies and Applications
Athina Lazakidou (University of Piraeus, Greece)

Biocomputation and Biomedical Informatics: Case Studies and Applications provides a compendium of terms, definitions, and explanations of concepts, processes, and acronyms in this significant medical field of study. This unsurpassed collection provides a defining body of research indispensable to medical libraries, researchers, and institutions worldwide.

Handbook of Research on Computational Methodologies in Gene Regulatory Networks
Sanjoy Das (Kansas State University, USA), Doina Caragea (Kansas State University, USA), Stephen M. Welch (Michigan State University, USA), and William H. Hsu (Kansas State University, USA)

The Handbook of Research on Computational Methodologies in Gene Regulatory Networks focuses on methods for modeling gene networks including structure discovery, learning, and optimization. This innovative Handbook of Research presents an overview of computational intelligence approaches for learning and optimization and how they can be used in gene regulatory networks.
Symmetrical Analysis Techniques for Genetic Systems and Bioinformatics: Advanced Patterns and Applications

Sergey Petoukhov (Russian Academy of Sciences, Russia) and Matthew He (Nova Southeastern University, USA)

Symmetrical Analysis Techniques for Genetic Systems and Bioinformatics: Advanced Patterns and Applications compiles studies that demonstrate effective approaches to the structural analysis of genetic systems and bioinformatics. This groundbreaking reference advance new mathematical methods and tools, phenomenological results and interdisciplinary connections in the fields of molecular genetics and bioinformatics.

Behavioral Biometrics for Human Identification: Intelligent Applications

Liang Wang (University of Bath, UK) and Xin Geng (Southeast University, China)

Behavioral Biometrics for Human Identification: Intelligent Applications discusses classic behavioral biometrics as well as collects the latest advances in techniques, theoretical approaches, and dynamic applications. A critical mass of research, this innovative collection serves as an important reference tool for researchers, practitioners, academicians, and technologists.

Multi-Agent Systems for Healthcare Simulation and Modeling: Applications for System Improvement

Raman Paranjape (University of Regina, Canada) and Asha Sadanand (University of Guelph, Canada)

Multi-Agent Systems for Healthcare Simulation and Modeling: Applications for System Improvement provides frameworks and research findings used by medical professionals in the implementation of multi-agent systems. Valuable to academicians, researchers, and field practitioners, this Premier Reference Source disseminates understanding on the strategic role of systems modeling in healthcare.

Handbook of Research on Advances in Health Informatics and Electronic Healthcare Applications: Global Adoption and Impact of Information Communication Technologies

Khalil Khoubati (University of Sindh, Pakistan), Yogesh Kumar Dwivedi (Swansea University, UK), Aradhana Srivastava (Participatory Research in Asia (PRIA), India), and Banita Lal (Nottingham Trent University, UK)

The Handbook of Research on Advances in Health Informatics and Electronic Healthcare Applications: Global Adoption and Impact of Information Communication Technologies for the first time brings to the healthcare community a comprehensive resource elucidating the adoption and usage of health informatics while gathering an in-depth collection of research articles and case studies from leading experts worldwide.

Redesigning Innovative Healthcare Operation and the Role of Knowledge Management

M. Saito (Waseda University, Japan), N. Wickramasinghe (Illinois Institute of Technology, USA), M. Fuji (Nonprofit Organization TBI Rehabilitation Center, Japan), and E. Geisler (Illinois Institute of Technology, USA)

Redesigning Innovative Healthcare Operation and the Role of Knowledge Management collects a compilation of chapters on how knowledge impacts the layout and design of the medical industry. A cutting-edge reference source within the field, this book provides comprehensive frameworks, constraints, and performances analyzed by experts within the healthcare sector.

Handbook of Research on Computational Grid Technologies for Life Sciences, Biomedicine, and Healthcare (2 Vols.)

Mario Cannataro (University Magna Graecia of Catanzaro, Italy)

The Handbook of Research on Computational Grid Technologies for Life Sciences, Biomedicine, and Healthcare brings together state-of-the-art methodologies and developments of grid technologies applied in different fields of life sciences. This title considers the use of grid technologies to support research and application of each information level where life science research takes place - a useful reference source for academicians, medical practitioners, and researchers involved in all areas of healthcare technologies.
Public Policy and Administration

Without a governing body, modern society would suffer substantial chaos due to a lack of law and order. Promoting research in the fields of public policy, government, and law can assist in creating a global understanding of the practices and models being implemented around the world and also in improving the current state of affairs.

IGI Global’s Public Policy and Administration subject area features diverse titles on the tools, trends, and current state of public policy around the world. Featuring research focusing on topics in crisis and disaster management, government, law, and public sector management, government officials, law professionals, academicians, and students will find this collection relevant to their research needs.
Handbook of Research on Democratic Strategies and Citizen-Centered E-Government Services

Çemal Dolganić (State University of Novi Pazar, Serbia), Ejub Kajan (State University of Novi Pazar, Serbia), Dragan Randeljović (Academy for Criminalistic and Police Studies, Serbia), and Boban Stojanović (University of Niš, Serbia)

The Handbook of Research on Democratic Strategies and Citizen-Centered E-Government Services seeks to address which services in e-government should be provided to users and how. This premier reference work gives an overview of the latest achievements in the field of e-government services, provides in-depth analysis of and research on the development and deployment of cutting-edge applications, and provides insight into future trends for researchers, teachers, students, government workers, and IT professionals.

Evidence Discovery and Assessment in Social Work Practice

Margaret Pack (Australian Catholic University, Australia) and Justin Cargill (Victoria University of Wellington, New Zealand)

Evidence Discovery and Assessment in Social Work Practice provides practitioners with the tools necessary to locate, analyze, and apply the latest empirical research findings in the field to their individual practice. This premier reference work provides insights and support to professionals and researchers working in the fields of social work, counseling, psychotherapy, case management, and psychology.

ICT Adoption and Application in the Malaysian Public Sector

Abdul Raufl Ambali (Universiti Teknologi MARA, Malaysia & Kwa State University Maleke, Nigeria) and Ahmad Nadjyuddin Bakar (Universiti Teknologi MARA, Malaysia)

ICT Adoption and Application in the Malaysian Public Sector aims to resolve the difficulties in applying practical ICT systems within the public sphere, thoroughly addressing disparities in ICT theory, user attitudes, and the underlying factors that hinder the full adoption of ICT systems. This publication is a valuable resource for policymakers, software developers, policy analysts, academic researchers, and students interested in the field of ICT.

Revolutionizing the Interaction between State and Citizens through Digital Communications

Sam B. Edwards III (Green Mountain College, USA) and Diogo Santos (Federal University of Maranhao, Brazil & Dom Bosco University, Brazil)

Revolutionizing the Interaction between State and Citizens through Digital Communications evaluates the relationship between governments and their constituents, and how this relationship is impacted by emerging technologies. Discussing both developed and underdeveloped nations, this book provides a comparison for the ongoing shift in societies, serving as a critical reference for legal professionals, activists, government employees, academics, and students.

Emerging Issues and Prospects in African E-Government

Inderjeet Singh Sodhi (St. Wilfred’s Post Graduate College–Jaipur, India)

Emerging Issues and Prospects in African E-Government explores relevant practices, trends, and potential challenges facing fledgling governments in the digital era. This book focuses on the establishment and maintenance of e-government in various African countries, providing critical insights for government bodies, policymakers, administrators, and public sector researchers working in local, state, and national governments around the world.

Handbook of Research on Advanced ICT Integration for Governance and Policy Modeling

Peter Sonntagbauer (Cellent AG, Austria), et al.

The Handbook of Research on Advanced ICT Integration for Governance and Policy Modeling builds on the available literature, research, and recent advances in e-governance to explore advanced methods and applications of digital tools in government. This collection of the latest research in the field presents an essential reference for academics, researchers, and advanced-level students, as well as government leaders, policy makers, and experts in international relations.
Human Rights and the Impact of ICT in the Public Sphere: Participation, Democracy, and Political Autonomy

Christina M. Aknoupoulou (Hellenic Open University, Greece) and N. Garipidis (Aristotle University of Thessaloniki, Greece)

Human Rights and the Impact of ICT in the Public Sphere: Participation, Democracy, and Political Autonomy focuses on the new technological era as an innovative way to initiate democratic dialogue, but one that can also endanger individual rights to freedom, privacy, and autonomy. This reference book focuses on the new opportunities technology offers for political expression and will be of use to both academic and legal audiences, including academics, students, independent authorities, legislative bodies, and lawyers.

E-Governance and Social Inclusion: Concepts and Cases

Scott Baum (Griffith University, Australia) and Arun Mahizhnan (National University of Singapore, Singapore)

E-Governance and Social Inclusion: Concepts and Cases presents current and emerging research about the implementation of technology in government and its broad social implications. This handbook aims to be a comprehensive reference publication for academicians, researchers, practitioners, students, and managers with an interest in e-government content and the ability for the public to access and utilize this technology.

Design, Development, and Use of Secure Electronic Voting Systems

Dimitrios Zissis (University of Aegean, Greece) and Dimitrios Lekkas (University of Aegean, Greece)

Design, Development, and Use of Secure Electronic Voting Systems analyzes current research on the integration of modern technologies with traditional democratic systems, providing a framework for designing and deploying electronic voting systems in any context or society. Stakeholders, researchers, architects, designers, and scholars interested in the use of electronic systems in government processes will use this book to gain a broader understanding of some of the latest advances in this emerging field.

Digital Access and E-Government: Perspectives from Developing and Emerging Countries

Peter Mazebe II Mothatsaes Sebina (University of Botswana, Botswana), Kgomotso H. Moabi (University of Botswana, Botswana), and Kelvin Joseph Bwalya (University of Botswana, Botswana & University of Johannesburg, South Africa)

Digital Access and E-Government: Perspectives from Developing and Emerging Countries explores the relationships that exist between access to information laws and e-government. It shares the strategies used in encouraging access to information in a variety of jurisdictions and environments, to be of use to e-government designers and practitioners, policymakers, and university professors.

Emerging Mobile and Web 2.0 Technologies for Connected E-Government

Zaigham Mahmood (University of Derby, UK & North West University Potchefstroom, South Africa)

Emerging Mobile and Web 2.0 Technologies for Connected E-Government highlights the latest technologies and how they can be implemented by the government and effectively used by citizens. This book aims to be an inclusive reference source for researchers, practitioners, students, and managers interested in the application of recent technological innovations to develop a more effective e-government system.
Technology Development and Platform Enhancements for Successful Global E-Government Design

Kelvin J. Bwalya (University of Botswana, Botswana and Senior Research Fellow, University of Johannesburg, South Africa)

Technology Development and Platform Enhancements for Successful Global E-Government Design compiles the shared experiences of e-government designers and practitioners with a focus on technological design. By highlighting the different technological nuances that need to be incorporated into successful e-government designs, this book is a useful tool for professionals and researchers concerned with the organizational development in different types of e-government communities and environments.

Crisis Management: Concepts, Methodologies, Tools, and Applications (3 Vols.)

Information Resources Management Association (USA)

Crisis Management: Concepts, Methodologies, Tools, and Applications explores the latest empirical research and best real-world practices for preventing, weathering, and recovering from disasters. From earthquakes and tsunamis to nuclear disasters and cyber terrorism, this extensive multi-volume compilation describes crisis management techniques for a variety of critical scenarios, providing leaders, managers, analysts, and workers with invaluable knowledge on how to recover swiftly from any crisis event.

Citizen E-Participation in Urban Governance: Crowdsourcing and Collaborative Creativity

Carlos Nunes Silva (University of Lisbon, Portugal)

Citizen E-Participation in Urban Governance Crowdsourcing and Collaborative Creativity explores the nature of the new challenges confronting citizens and local governments in the field of urban governance. This comprehensive reference source explores the role that Web 2.0 technologies play to promote citizen participation and empowerment in the city government and is intended for scholars, researchers, students, and practitioners in the field of urban studies, urban planning, political science, public administration, and many more.

E-Government Success around the World: Cases, Empirical Studies, and Practical Recommendations

J. Ramon Gil-Garcia (Centro de Investigación y Docencia Económicas, Mexico)

E-Government Success around the World: Cases, Empirical Studies, and Practical Recommendations presents the latest findings in the area of e-government success. Written for academics and professionals, this book aims to improve the understanding of e-government success factors and cultural contexts in the field of government information technologies in various disciplines such as political science, public administration, information and communication sciences, and sociology.

Developing E-Government Projects: Frameworks and Methodologies

Zaigham Mahmood (University of Derby, UK)

Developing E-Government Projects: Frameworks and Methodologies presents frameworks and methodologies for strategies towards the design, implementation, and adoption of e-government projects. By providing best practices in the successful adoption of e-government, this book is essential for policy makers, practitioners, researchers, and students interested in the approaches utilized for the successful implementation of e-government projects.
E-Government Success Factors and Measures: Theories, Concepts, and Methodologies

J. Ramon Gil-Garcia (Centro de Investigación y Docencia Económicas, Mexico)

E-Government Success Factors and Measures: Theories, Concepts, and Methodologies investigates successful e-government initiatives in a modern technological environment, exploring both benefits and challenges due to various technical, organizational, social, and contextual factors. The book provides academics and professionals with concepts, theories, and current research in the arena of e-government, enabling readers to develop a broader understanding of the measures inherent in successful e-governments on a global scale. This book is a part of the Advances in Electronic Government, Digital Divide, and Regional Development series collection.

Purchase Pricing:
Hardcover + Free E-Access: US $180
E-Access Only: US $170

E-Government Implementation and Practice in Developing Countries

Zaigham Mahmood (University of Derby, UK)

E-Government Implementation and Practice in Developing Countries provides research on the current actions being taken by developing countries towards the design, development, and implementation of e-government policies. This book will discuss current frameworks and strategies that are useful for project managers, government officials, researchers, and students interested or involved in the development and implementation of e-government planning. This book is part of the Advances in Electronic Government, Digital Divide, and Regional Development series collection.

Purchase Pricing:
Hardcover + Free E-Access: US $180
E-Access Only: US $170

Business, Technology, and Knowledge Management in Asia: Trends and Innovations

Patricia Ordóñez de Pablos (Universidad de Oviedo, Spain)

Business, Technology, and Knowledge Management in Asia: Trends and Innovations highlights the efforts and developments in the fields of Asian studies as well as its intentional role in IT and management within the constant growing business market. This book is a comprehensive collection of research that is useful for policymakers, government officials, academicians and students alike.

Purchase Pricing:
Hardcover + Free E-Access: US $170
E-Access Only: US $170

Cultural and Technological Influences on Global Business

Bryan Christiansen (PryMarke, LLC, Turkey), Ekaterina Turkina (HEC Montreal, Canada), and Nigel Williams (Bournemouth University, UK)

Cultural and Technological Influences on Global Business is a leading publication in its field that emphasizes the importance of deeply exploring developing cultures and technologies and their effects on the business sector. This reference source is beneficial for professionals, researchers, and practitioners who wish to broaden their understanding the direct relationship between culture and technology in the international business realm.

Purchase Pricing:
Hardcover + Free E-Access: US $180
E-Access Only: US $170

Technology, Sustainability, and Rural Development in Africa

Blessing Maumbe (West Virginia University, USA) and Julius J. Okello (University of Nairobi, Kenya)

Technology, Sustainability, and Rural Development in Africa provides research, analytical methods, techniques, and development policies in ICT adoption and diffusion in Africa and around the globe. Highlighting the major trends in ICT applications and rural development, this book is useful for scholars, academics, researchers and government policy makers.

Purchase Pricing:
Hardcover + Free E-Access: US $180
E-Access Only: US $170

E-Government Services Design, Adoption, and Evaluation

Vishanth Weerakkody (Brunel University, USA)

E-Government Services Design, Adoption, and Evaluation is a comprehensive collection of research on assessment and implementation of electronic/digital government technologies in organizations. This book aims to supply academics, practitioners and professionals with the understanding of e-government and its applications and impact on organizations around the world.

Purchase Pricing:
Hardcover + Free E-Access: US $180
E-Access Only: US $170
Digital Democracy and the Impact of Technology on Governance and Politics: New Globalized Practices
Christina Akvopoulou (Democritus University of Thrace, Greece) and Nicolas Garipidis (Aristotle University of Thessaloniki, Greece)

Digital Democracy and the Impact of Technology on Governance and Politics: New Globalized Practices brings together a detailed examination of the new ideas on electronic citizenship, electronic democracy, e-governance, and digital legitimacy. By combining theory with the study of law and matters of public policy, this book is essential for both academic and legal scholars, researchers, and practitioners.

Human-Centered System Design for Electronic Governance
Saqib Saeed (Bahria University Islamabad, Pakistan) and Christopher G. Reddick (University of Texas at San Antonio, USA)

Human-Centered System Design for Electronic Governance provides special attention to the most successful practices for implementing e-government technologies. This highly regarded publication highlights the benefits of well designed systems in this field, while investigating the implications of poor practices and designs. This book is beneficial for academics, researchers, government officials, and graduate students interested and involved in design of information systems within the context of e-government.

Public Information Management and E-Government: Policy and Issues
Mary Maureen Brown (University of North Carolina, USA) and G. David Garson (North Carolina State University, USA)

Public Information Management and E-Government: Policy and Issues offers a fresh, comprehensive dialogue on issues that occur between the public management and information technology domains. With its focus on political issues and their effects on the larger public sector, this book is valuable for administrators, researchers, students, and educators who wish to gain foundational and theoretical knowledge on e-government policies.

Technology Diffusion and Adoption: Global Complexity, Global Innovation
Ali Hussein Zolait (University of Bahrain, Bahrain)

Technology Diffusion and Adoption: Global Complexity, Global Innovation discusses the emerging topics of information technology and the IT based solutions in global and multi-cultural environments. This comprehensive collection addresses the aspects of innovation diffusion in the field of business computing technologies and is essential for researchers, practitioners, academicians and educators all over the world.

Transactional Environmental Support System Design: Global Solutions
Robert Kenward (Anatrack Ltd, UK), Jason Papathanasiou (University of Macedonia, Greece), Basil Manos (Aristotle University of Thessaloniki, Greece) and Efstratios Arampatzis (Tero Ltd, Greece)

Transactional Environmental Support System Design: Global Solutions details the results of this project ranging from studies done in small, local communities to those done in much larger national settings. Survey results of government practices, availability of decision support software, and community responses to data recording are all highlighted in this emerging research. Additionally, the book goes on to emphasize the increasing potential for environmental decision support while directly addressing some of the challenges that must be overcome.
Green Technologies and Business Practices: An IT Approach
Patricia Ordóñez de Pablos
(University of Oviedo, Spain)

Green Technologies and Business Practices: An IT Approach is an international platform that brings together academics, researchers, lecturers, policy makers, practitioners, and persons in decision-making positions from all backgrounds who ultimately share new theories, research findings and case studies, together enhancing understanding and collaboration of green issues in business and the role of information technologies and also analyze recent developments in theory and practice. Furthermore, this book demonstrates the capacity of green models and policies, information technology and management for the mutual understanding, prosperity and overall well-being of all the citizens in the world. This title is perfect for politicians, professors, policy makers, government officers, and students alike.

Design Optimization of Active and Passive Structural Control Systems
Nikos D. Lagaros (National Technical University of Athens, Greece), Vagelis Plevris (National Technical University of Athens, Greece), and Chara Ch. Mitropoulou (National Technical University of Athens, Greece)

Design Optimization of Active and Passive Structural Control Systems includes Earthquake Engineering and Tuned Mass Damper research topics into a volume taking advantage of the connecting link between them, which is optimization. This is a publication addressing the design optimization of active and passive control systems. This title is perfect for engineers, professionals, professors, and students alike, providing cutting edge research and applications.

From Government to E-Governance: Public Administration in the Digital Age
Muhammad Muinul Islam (Jahangirnagar University, Bangladesh) and Mohammad Ehsan (University of Dhaka, Bangladesh)

From Government to E-Governance: Public Administration in the Digital Age aims to introduce novel theoretical frameworks, and fresh insights derived from the latest empirical research findings in the area of public administration systems that existed in the earlier civilizations, as well as the e-governance turn of contemporary times. Academics, civil servants, researchers, policy advisors, and students who seek a genuine understanding of the evolution of public administration from the past, right through the ICT age, should find this book a timely addition to the literature.

E-Agriculture and Rural Development: Global Innovations and Future Prospects
Blessing M. Maumbe (West Virginia University, USA) and Charalampos Z. Patrikakis (TEI of Piraeus, Greece)

E-Agriculture and Rural Development: Global Innovations and Future Prospects is a comprehensive collection of research on the emerging trends and advances in the global use of information and communication technology use in agriculture and rural development. Consisting of case studies, implementation frameworks, and policies, this book provides a global perspective and understanding of the developments in e-agriculture and rural development.

Public Sector Transformation Processes and Internet Public Procurement: Decision Support Systems
Natasa Pomazalova (University of Defence in the Czech Republic, Czech Republic)

Public Sector Transformation Processes and Internet Public Procurement: Decision Support Systems brings together research on different perspectives from academics and practitioners on the methods, theories and practices involved in the growth and expansion of decision support systems as it relates to the public sector transformation process as well as internet public procurement.

Giuseppe Borruso (University of Trieste, Italy), Stefania Bertazzon (University of Calgary, Canada), Andrea Favretto (University of Trieste, Italy), Beniamino Murgante (University of Basilicata, Italy), and Carmelo Maria Torre (Polytechnic of Bari, Italy)

Geographic Information Analysis for Sustainable Development and Economic Planning: New Technologies tackles topics related to, to-date development of Geographic Information in terms of the technologies available for retrieving, managing, and analyzing geographical data. This book is useful for academic staff, as well as postgraduate students (MSc, PhD levels) in GIS, remote sensing, economic geography, spatial planning, geostatistics, and related fields.
Global Diffusion and Adoption of Technologies for Knowledge and Information Sharing

Felix B. Tan (Auckland University of Technology, New Zealand)

Global Diffusion and Adoption of Technologies for Knowledge and Information Sharing provides diverse insights from researchers and practitioners around the world to offer their knowledge on the comparisons of international enterprises. This book is useful to managers and practitioners to improve business practices and keep an open dialogue about global information management.

Emerging Methods and Multidisciplinary Applications in Geospatial Research

Donald Patrick Albert (Sam Houston State University, USA) and G. Rebecca Dobbs (University of North Carolina - Chapel Hill, USA)

Emerging Methods and Multidisciplinary Applications in Geospatial Research exemplifies the usage of geographic information science and technology (GIS&T) to explore and resolve geographical issues from various application domains within the social and/or physical sciences. It specializes in studies from applied geography that interfaces with geographic information science and technology. This publication is designed to provide planners and policy analysts, practitioners, academicians, and others using GIS&T useful studies that might support decision-making activities.

Adoption of Virtual Technologies for Business, Educational, and Governmental Advancements

Sushil K. Sharma (Ball State University, USA)

Adoption of Virtual Technologies for Business, Educational, and Governmental Advancements provides a wide range of coverage on the adoption of technology and aims to provide a better understanding of the topics, research, and discoveries in this significant field. This book aims to cover the emerging issues in e-adoption for researchers, faculty members, and students in hopes of contributing to future discoveries.

Cases on Progressions and Challenges in ICT Utilization for Citizen-Centric Governance

Hakikur Rahman (University of Minho, Portugal)

Cases on Progressions and Challenges in ICT Utilization for Citizen-Centric Governance is a collection of case studies on the advancements and challenges of information technology in the involvements of citizens with the government. With contributions from authors around the world, this compilation is relevant to researchers, academics, and practitioners who wish to stay informed of the new world of technology in the government.

E-Procurement Management for Successful Electronic Government Systems

Patricia Ordonez de Pablos (University of Oviedo, Spain), Juan Manuel Cueva Lovelle (University of Oviedo, Spain), Jose Emilio Labra Gayo (University of Oviedo, Spain), and Robert D. Tennyson (University of Minnesota, USA)

E-Procurement Management for Successful Electronic Government Systems enhances the understanding and collaboration in e-government and the role of information technologies in supporting the development of improved services for citizens. By analyzing recent developments in theory and practices as well as providing fresh ideas and research, this reference source aims to bridge the gap between academia, industry and government.

Digital Democracy: Concepts, Methodologies, Tools, and Applications (3 Vols.)

Information Resources Management Association (USA)

Digital Democracy: Concepts, Methodologies, Tools, and Applications presents a vital compendium of research detailing the latest case studies, architectures, frameworks, methodologies, and research on Digital Democracy. With contributions from authors around the world, this three-volume collection presents the most sophisticated research and developments from the field, relevant to researchers, academics, and practitioners alike. In order to stay abreast of the latest research, this book affords a vital look into Digital Democracy research.
E-Governance and Civic Engagement: Factors and Determinants of E-Democracy
Aroon Manoharan (Kent State University, USA) and Marc Holzer (Rutgers University, USA)
E-Governance and Civic Engagement: Factors and Determinants of E-Democracy examines how e-government facilitates online public reporting, two-way communication and debate, online citizen participation in decision-making, and citizen satisfaction with e-governance. The book explores the impacts from governments that have engaged their citizens online, discusses issues and challenges in adopting and implementing online civic engagement initiatives globally, and helps guide practitioners in their transition to e-governance.

City Competitiveness and Improving Urban Subsystems: Technologies and Applications
Melih Bulu (Istanbul Sehir University, Turkey)
City Competitiveness and Improving Urban Subsystems: Technologies and Applications uses information science perspectives to improve working subsystems in transportation, sewage, electricity, water, communication, education, health, governance, and infrastructure since their efficient and synchronized operation is vital for a competitive city. This pioneering approach will interest researchers, professionals, and policymakers in urban economy, regional planning, and information science disciples who wish to improve the competitiveness of their cities.

Public Sector Reform Using Information Technologies: Transforming Policy into Practice
Thanos Papadopoulos (University of Southampton, UK) and Panagiotis Kanelis (Ernst & Young and University of Athens, Greece)
Public Sector Reform Using Information Technologies: Transforming Policy into Practice offers an analytical, interdisciplinary examination of electronic governance implementation from theoretical and practical perspectives. Researchers in fields like computer science, information systems, and sociology, and practitioners in policy formulation, implementation, and IT and systems deployment will find useful insights for improving the effectiveness of government services. Successfully transforming public policy using IT will help minimize the political and financial repercussions of failed implementations, meet the increasing expectations of citizens in modern democracies, and shape the public sector of the future.

Strategic Enterprise Resource Planning Models for E-Government: Applications and Methodologies
Susheel Chhabra (Lal Bahadur Shastri Institute of Management, India) and Muneesh Kumar (University of Delhi, India)
Strategic Enterprise Resource Planning Models for E-Government: Applications and Methodologies is a collection of research from professionals and researchers working in the field of e-government including policymakers, ICT vendors, consultants, and implementing agencies. This book will aim to suggest enterprise resource planning frameworks for government enterprises along with their applications and methodologies to improve effectiveness of processes and enhance citizen-centric services. The research initiatives presented in this book will ease the process of implementing customized enterprise resource planning solutions in e-government.

Cases on Developing Countries and ICT Integration: Rural Community Development
Rebecca Nthogo Lekoko (University of Botswana, Botswana) and Ladislaus M. Semali (Pennsylvania State University, USA)
Cases on Developing Countries and ICT Integration: Rural Community Development pools together experts’ experiences on ICT integration in rural community development within the context of developing countries. The technology they used is described, analyzed, and synthesized in order to offer solutions for successful application. This premier reference source is ideal for community development workers, social workers, scholars, researchers, and policymakers interested in ICTs for community development.
Technology Enabled Transformation of the Public Sector: Advances in E-Government
Vishanth Weerakkody (Brunel University, UK)

Technology Enabled Transformation of the Public Sector: Advances in E-Government is filled with original research about electronic government and supplies academicians, practitioners, and professionals with quality applied research results in the field of electronic/digital government, its applications, and impacts on governmental organizations around the world. This title effectively and positively provides organizational and managerial directions with greater use and management of electronic/digital government technologies in organizations. It also epitomizes the research available within e-government while exponentially emphasizing the expansiveness of this field.

Enterprise Architecture for Connected E-Government: Practices and Innovations
Pallab Saha (National University of Singapore, Singapore)

Enterprise Architecture for Connected E-Government: Practices and Innovations addresses the gap in current literature in terms of linking and understanding the relationship between e-government and government Enterprise Architecture. Within this broader context, the focus is specifically on uncovering and comprehending the relationship between government Enterprise Architecture and connected government. Perfect for Government CIOs, IT/IS Managers, Chief Architects, Analysts and Designers seeking better, quicker, and easier approaches to respond to needs of their internal and external customers.

Sustainable ICTs and Management Systems for Green Computing
Wen-Chen Hu (University of North Dakota, USA) and Naima Kaabouch (University of North Dakota, USA)

Sustainable ICTs and Management Systems for Green Computing focuses on information technology using sustainable green computing to reduce energy and resources used. While there are a wide variety of green computing topics, this book is a collection of IT articles using green computing techniques that will provide timely, important technologies and methods of green computing to IT workers, students, and researchers alike.

Energy-Aware Systems and Networking for Sustainable Initiatives
Naima Kaabouch (University of North Dakota, USA) and Wen-Chen Hu (University of North Dakota, USA)

Energy-Aware Systems and Networking for Sustainable Initiatives covers a great variety of topics such as materials, environment, electronics, and computing. This title is a vital source of information detailing the latest architectures, frameworks, methodologies, and research on energy-aware systems and networking for sustainable initiatives. With contributions from authors around the world, this book presents the most sophisticated research and developments from the field, relevant to researchers, academics, and practitioners alike.

Digital Economy Innovations and Impacts on Society
Elena Druică (University of Bucharest, Romania)

Digital Economy Innovations and Impacts on Society provides theoretical and practical approaches about digital economy, increasing people’s awareness on what the digital economy is and exactly what competitive advantages exist to provide information technology and innovation as its main resources. This publication focuses on rethinking the classical economic theory in the context of new technology, information, and innovation, making it a publication that brings the best research to the forefront for economics and social researchers, academicians, professionals and practitioners.

Sustainable Policy Applications for Social Ecology and Development
Elias G. Carayannis (The George Washington University School of Business, USA)

Sustainable Policy Applications for Social Ecology and Development establishes a new set of platforms for intellectual discourse and identification of critical and strategic emerging issues, the formulation of cogent and useful policies, and practice recommendations. This publication highlights provocative, but scholarly, views that diverge from the current “conventional wisdom” taking into consideration the concepts of robust competitiveness, sustainable entrepreneurship, and democratic capitalism, central to its philosophy and objectives. The aim of this book is to highlight emerging research and practice at the dynamic intersection of these fields, where individuals, organizations, industries, regions, and nations are harnessing creativity and invention to achieve and sustain growth.
Global Sustainable Development and Renewable Energy Systems
Phillip Olla (Madonna University, USA)

Global Sustainable Development and Renewable Energy Systems pushes through the boundaries of current research to introduce the concept of an energy management information system, exploring the role of energy for sustainable development. This book goes into great detail describing the benefits of these systems for organizations focusing on corporate sustainability initiatives and activities to combat climate change. Research presented in this publication include modeling techniques, software applications, and case studies that reveal how renewable energy sources such as wind, solar, and biomass fuel can have a significant implications for both operating costs and environmental impacts.

Structural Seismic Design Optimization and Earthquake Engineering: Formulations and Applications
Vagelis Plevris (National Technical University of Athens, Greece), et al.

Structural Seismic Design Optimization and Earthquake Engineering: Formulations and Applications focuses on the research around earthquake engineering, in particular, the field of implementation of optimization algorithms in earthquake engineering problems. Topics discussed within this book include, but are not limited to, simulation issues for the accurate prediction of the seismic response of structures, design optimization procedures, soft computing applications, and other important advancements in seismic analysis and design where optimization algorithms can be implemented.

Human Rights and Risks in the Digital Era: Globalization and the Effects of Information Technologies
Christina M. Akrivopoulou (Democritus University of Thrace, Greece), et al.

Human Rights and Risks in the Digital Era: Globalization and the Effects of Information Technologies explores the emergence and evolution of ‘digital’ rights that challenge and transform more traditional legal, political, and historical understandings of human rights. Academic and legal scholars will explore individual, national, and international democratic dilemmas—sparked by economic and environmental crises, media culture, data collection, privatization, surveillance, and security—that alter the way individuals and societies think about, regulate, and protect rights when faced with new challenges and threats. The book not only uncovers emerging changes in discussions of human rights, it proposes legal remedies and public policies to mitigate the challenges posed by new technologies and globalization.

Regional Development: Concepts, Methodologies, Tools, and Applications (3 Vols.)
Information Resources Management Association (USA)

Regional Development: Concepts, Methodologies, Tools, and Applications presents a vital compendium of research detailing the latest case studies, architectures, frameworks, methodologies, and research on regional development. With over 100 chapters from authors from around the world, this three volume collection presents the most sophisticated research and developments from the field, relevant to researchers, academicians, and practitioners alike. In order to stay abreast of the latest research, this book affords a vital look into regional development research.

Sustainable Systems and Energy Management at the Regional Level: Comparative Approaches
Marco Tortora (University of Florence, Italy)

Sustainable Systems and Energy Management at the Regional Level: Comparative Approaches provides an interdisciplinary look at the possible relationships which exist between energy and the environment. Relevant theoretical frameworks and the latest empirical research findings on the impacts of regulation policies, market-facilitation policies, and communication models and policies are reviewed with the aim of improving understanding and strategy.
Geotechnical Applications for Earthquake Engineering: Research Advancements
T.G. Sitharam (Indian Institute of Science, India)

Geotechnical Applications for Earthquake Engineering: Research Advancements has collected chapters from experts from around the world in a variety of applications, frameworks, and methodologies, and prepared them in a form that serves as a handy reference and research guide to practitioners and academicians alike. By protecting society with earthquake engineering, the latest research can make the world a safer place.

Cases on Public Information Management and E-Government Adoption
Christopher G. Reddick (The University of Texas, USA)

Cases on Public Information Management and E-Government Adoption provides real-world examples of the successes and pitfalls faced by public sector organizations. The process of adopting technology is full of complicated social, practical, administrative, cultural, and legal pitfalls and opportunities. In order to ensure that any organization achieves the greatest advantages from their technological advances, these issues must be addressed and learning from the empirical studies present in this reference is the first step.

Customer-Oriented Global Supply Chains: Concepts for Effective Management
Ephrem Eyob (Virginia State University, USA) and Edem G. Tetteh (Virginia State University, USA)

Customer-Oriented Global Supply Chains: Concepts for Effective Management provides insights and supports executives, middle managers and practitioners concerned with the management of supply chain with expertise, knowledge, information and organizational management development in different types of industries. The book is a collection of knowledge that will assist researchers, teachers, students, and practitioners in enhancing their understanding of global supply chain management and solutions applied.

Geospatial Technologies and Advancing Geographic Decision Making: Issues and Trends
Donald Patrick Albert
(Sam Houston State University, USA)

Geospatial Technologies and Advancing Geographic Decision Making: Issues and Trends presents policy analysts, geospatial practitioners, and academicians with high-quality examples of various application domains within applied geospatial research. This reference to explores and resolves geographical issues from fields as various tourism, advertising, transportation, climate and geomorphology. Geographic data is increasing exponentially and the key to tapping this flow is an understanding of the chapters included in this collection.

Advancing Technologies for Asian Business and Economics: Information Management Developments
Dasho Karma Ura (Centre for Bhutan Studies, Bhutan) and Patricia Ordóñez de Pablos (Universidad de Oviedo, Spain)

Advancing Technologies for Asian Business and Economics: Information Management Developments offers the latest research available within the field of information management as it pertains to the Asian business market. The book promotes and coordinates developments in the field of Asian and Chinese studies, as well as presents strategic roles of IT and management towards sustainable development with emphasis on practical aspects in Asia. It provides a comprehensive resource for policy makers, government officials, academicians, and practitioners, with a wealth of valuable research on theories and practices which underpin successful business and management in Asia.

Citizen 2.0: Public and Governmental Interaction through Web 2.0 Technologies
Kathryn Kloby (Monmouth University, USA) and Maria J. DiGostino (City University of New York, USA)

Citizen 2.0: Public and Governmental Interaction through Web 2.0 Technologies defines the role of Web 2.0 technologies in government and highlights a variety of strategies and tools public administrators can use to engage citizens. Chapters provide suggestions for adoption and implementation based on the lessons learned by scholars and practitioners in the field. More importantly, it will present an analysis of how Web 2.0 technology can transform government and explore how citizen expectations and preferences can be included in decision making. The collection provides a vital resource for practitioners and academics to stay abreast of the latest research within the ever-burgeoning field.
Universal Ontology of Geographic Space: Semantic Enrichment for Spatial Data
Tomaž Podobnikar (Scientific Research Centre of the Slovenian Academy of Sciences and Arts, Slovenia) and Marjan Ceh (University of Ljubljana, Slovenia)

Universal Ontology of Geographic Space: Semantic Enrichment for Spatial Data aims to escalate the current scope of research to support the development of semantically interoperable systems of geographic space. This reference will aid to university lecturers and professors, students, researchers, developers of the spatial applications and the developers of the spatial semantic applications will gain important guidance.

New Technologies for Constructing Complex Agricultural and Environmental Systems
Petraq Papajorgji (European University of Tirana, Albania) and François Pinet (Cemagref - Clermont Ferrand, France)

New Technologies for Constructing Complex Agricultural and Environmental Systems presents high quality research on the design and implementation of information systems in the fields of agronomics, mathematics, economics, computer science, and the environment. This book gives holistic approaches to the design, development, and implementation of complex agricultural and environmental information systems, addressing the integration of several scientific domains such as agronomy, mathematics, economics, and computer science. This book will only become more important as the world searches for the best ways to manage food production.

Disruptive Technologies, Innovation and Global Redesign: Emerging Implications
Ndubuisi Ekekwe (African Institution of Technology, USA) and Nazrul Islam (Aberystwyth University, UK)

Disruptive Technologies, Innovation and Global Redesign: Emerging Implications provides case studies as well as practical and theoretical papers on the issues surrounding disruptive technologies, innovation, global redesign. This book will be a useful reference for academics, students, policymakers and professionals in the fields of emerging and disruptive technologies, innovation, economic planning, technology and society, technology transfer, and general technology management.

Active Citizen Participation in E-Government: A Global Perspective
Aroon Manoharan (Kent State University, USA) and Marc Holzer (Rutgers University, USA)

Active Citizen Participation in E-Government: A Global Perspective focuses on the issues and challenges involving adoption and implementation of online civic engagement initiatives globally and will serve as a valuable guide to governments in their efforts to enable active citizen participation. This book details the efforts of governments and public agencies in providing proper channels for engaging their citizens and presents a wide range of research on approaches undertaken by governments across the world in facilitating active citizen participation online.

Handbook of Research on E-Government in Emerging Economies: Adoption, E-Participation, and Legal Frameworks (2 Vols.)
Kelvin Joseph Bwalya (University of Botswana, Botswana) and Saul Zulu (University of Botswana, Botswana)

Handbook of Research on E-Government in Emerging Economies: Adoption, E-Participation, and Legal Frameworks is a collection of knowledge on contemporary experiences on technological, societal and legal setups of e-Government implementation in emerging economies. The book is composed of professionals and researchers working in the field of e-Government and information/knowledge management in various disciplines and establishments.

E-Adoption and Technologies for Empowering Developing Countries: Global Advancements
Sushil K. Sharma (Ball State University, USA)

E-Adoption and Technologies for Empowering Developing Countries: Global Advancements reviews the impact technology has had on individuals and organizations whose access to media and resources is otherwise limited. With overviews of topics including electronic voting, electronic delivery systems, social Web applications, and online educational environments, this reference work provides a foundation for understanding the interplay between technology and societal growth and development.
Stephen Kwamena Aikins (University of South Florida, USA)

Managing E-Government Projects: Concepts, Issues, and Best Practices collects the work of some of the best scholars and practitioners in the fields of e-government and project management, who explore how e-government projects can be managed, planned, and executed with effective project management techniques and methodologies. The chapters address theoretical, empirical, and practical concerns, explore factors affecting e-government projects’ successes and failures, and discuss existing best practices and their implications for local and national governance in developed and developing countries.

Green and Ecological Technologies for Urban Planning: Creating Smart Cities
Ozge Yalciner Ercoskun (Gazi University, Turkey)

Green and Ecological Technologies for Urban Planning: Creating Smart Cities addresses the ecological, technological, and social challenges faced in the smart urban planning and design of settlements when using eco-technologies – from sustainable land use to transportation, and from green areas to municipal applications – with a focus on resilience. Containing research from leading international experts, this book provides comprehensive coverage and definitions of the most important issues, concepts, trends, and technologies within the planning field.

International Comparisons of Information Communication Technologies: Advancing Applications
Felix B. Tan (Auckland University of Technology, New Zealand)

International Comparisons of Information Communication Technologies: Advancing Applications offers perspectives on international information management with particular emphasis on the strategies for the implementation and application of information technology in developed and developing countries. This collection of global research offers perspectives for researchers and managers interested in learning about new and emerging business practices and their impact on business performance.

E-Parliament and ICT-Based Legislation: Concept, Experiences and Lessons
Mehmet Zahid Sobaci (University of Uludag, Turkey)

E-Parliament and ICT-Based Legislation: Concept, Experiences and Lessons presents a conceptual framework regarding e-parliament and analyzes the impacts of ICTs on the structure of parliament, its functions, relations with other actors and the legislative process. As a result of the means and opportunities created by ICTs, parliaments have had a chance to simplify and integrate their administrative processes and involve citizens in legislative processes. This book reflects on new understandings, developments and practices in parliaments within the framework of ICT usage.

Ethical Models and Applications of Globalization: Cultural, Socio-Political and Economic Perspectives
Charles Wankel (St. John’s University, USA) and Shaun Malleck (University of California, Irvine, USA)

Ethical Models and Applications of Globalization: Cultural, Socio-Political and Economic Perspectives presents the work of researchers who seek to advance the understanding of both the ethical impact of globalization and the influence of globalization on ethical practices from various cultural, socio-political, economic, and religious perspectives. The aim of this reference work is to put forward empirically grounded methods for understanding both the affect that the process of globalization has on ethical practices in organizations and how this research can shape the course of economic globalization.

E-Government Service Maturity and Development: Cultural, Organizational and Technological Perspectives
Mahmud Akhter Shareef (McMaster University, Canada), et al.

E-Government Service Maturity and Development: Cultural, Organizational and Technological Perspectives discusses important concepts for public administration reformation, taking into account the complex social, administrative, cultural, and legal problems of implementing modern digital systems. The book helps define empirical studies and methodologies for e-government research and identifies factors affecting the development and proliferation of e-government. Researchers and practitioners will gain an understanding of managing e-government; meeting their strategies and objectives; building trust and security; providing interactivity and community; developing personalized experiences and content; increasing service selection; and other issues essential to adopting, implementing, and sustaining e-government.
ICTs and Sustainable Solutions for the Digital Divide: Theory and Perspectives
Jacques Steyn (Monash South Africa) and Graeme Johanson (Monash University, Australia)

ICTs and Sustainable Solutions for the Digital Divide: Theory and Perspectives focuses on Information and Communication Technologies for Development (ICT4D), which includes any technology used for communication and information. This publication researches the social side of computing, the users, and the design of systems that meet the needs of “ordinary” users.

Handbook of Research on E-Services in the Public Sector: E-Government Strategies and Advancements
Abid Thyab Al-Ajeeli (University of Bahrain, Bahrain) and Yousif A. Latif Al-Bastaki (University of Bahrain)

The Handbook of Research on E-Services in the Public Sector: E-Government Strategies and Advancements illustrates how technology in e-government saves individuals significant amounts of time and money, while adding value to citizens’ experiences with government, thus better serving their needs. This handbook provides comprehensive coverage of the issues facing managers, consultants, and practitioners in e-government and assists them in formulating ICT strategies for use within their field. These new strategies will enable them to implement collaborative policy initiatives within the private, public, and non-profit sectors to ultimately eliminate the global digital divide.

Climate Change, Supply Chain Management and Enterprise Adaptation: Implications of Global Warming on the Economy
Costas P. Pappis (University of Piraeus, Greece)

Climate Change, Supply Chain Management and Enterprise Adaptation: Implications of Global Warming on the Economy aims to provide one among many diverse responses to a growing sense of urgency fed by climate change and experienced by international institutions, governments, local authorities, and enterprises. It provides an interdisciplinary treatment of issues raised by climate change in connection with its implications for society, environment and economy, particularly at the company and the supply chain levels.

Electronic Globalized Business and Sustainable Development Through IT Management: Strategies and Perspectives
Patricia Ordóñez de Pablos (University of Oviedo, Spain), Miltiadis Lytras (CTI, Greece), Waldemar Kanowski (University of Central Florida, USA), and Rongbin W.B. Lee (Hong Kong Polytechnic University, Hong Kong)

Electronic Globalized Business and Sustainable Development Through IT Management: Strategies and Perspectives provides fresh ideas on how IT and modern management can contribute to societal and economic objectives, and the significant role of IT for global challenges and international collaboration. This book aims to bring together academics, researchers, entrepreneurs, policy makers and government officers to contribute to the debate on sustainable development and strategic management through Information Technology.

Electronic Governance and Cross-Boundary Collaboration: Innovations and Advancing Tools
Yu-Che Chen (Northern Illinois University, USA), et al.

Electronic Governance and Cross-Boundary Collaboration: Innovations and Advancing Tools will provide research-based policy and management recommendations for innovative e-governance. By focusing on recent developments that will shape the future of e-governance, this book offers an analytical and comparative framework for evaluating and improving e-governance and provides a rich array of models from diverse institutional contexts, focusing on the Asia-Pacific region. Scholars in public administration, public management, and information science can enrich their research on public affairs and e-governance, government agencies and practitioners can learn about the adoption, use, and impact of e-governance, and both groups can use the book to generate sound policy and management decisions for the Asia-Pacific region and beyond.
Interoperability in Digital Public Services and Administration: Bridging E-Government and E-Business

Yannis Charalabidis (National Technical University of Athens, Greece)

Interoperability in Digital Public Services and Administration: Bridging E-Government and E-Business provides the latest research findings such as theoretical foundations, principles, methodologies, architectures, technical frameworks, international policy, standardization and case studies for the achievement of interoperability within the provision of digital services, from administration and businesses toward the user citizens and enterprises.

E-Adoption and Socio-Economic Impacts: Emerging Infrastructural Effects

Sushil K. Sharma (Ball State University, USA)

E-Adoption and Socio-Economic Impacts: Emerging Infrastructural Effects identifies the multidimensional impact of e-adoption and provides theoretical and practical solutions for policy makers, managers, and researchers in government, industry, and academia. This publication unites research on all aspects of e-adoption with the aim of understanding this phenomenon on both an organizational and individual level.

Stakeholder Adoption of E-Government Services: Driving and Resisting Factors

Mahmud Akhter Shareef (McMaster University, Canada), Vinod Kumar (Carleton University, Canada), Uma Kumar (Carleton University, Canada), and Yogesh K. Dwivedi (Swansea University, UK)

Stakeholder Adoption of E-Government Services: Driving and Resisting Factors examines the stakeholders of e-government and reveals the stages of growth or service maturity levels. This publication sheds light on the paradigms and fundamental discourses of the e-government adoption process, including empirical studies in both developed and developing countries. Given these perspectives, issues, and critical factors, this book proposes a citizen-centric governing framework for e-government. Finally, the book provides tools to evaluate the performance of e-government projects and gives inferences from some implemented e-government projects.


Felix B. Tan (Auckland University of Technology, New Zealand)

International Enterprises and Global Information Technologies: Advancing Management Practices offers solutions, best practices, and case studies on information management on a global scale among developed, developing, and emerging nations. Organizational and managerial implications are explored in-depth, making this publication essential for researchers and professionals who need to understand the mechanics of today’s global business environment.

Agricultural and Environmental Informatics, Governance and Management: Emerging Research Applications

Zacharoula Andreopoulou (Aristotle University of Thessaloniki, Greece), et al.

Agricultural and Environmental Informatics, Governance and Management: Emerging Research Applications is a state-of-the-art reference book which explores how rural policymakers and stakeholders can use information and communication technologies to sustainably manage agricultural and natural resources. The book explores how ICT can support public governance and rural decision-making, how supply chain and agricultural informatics tools and methods can improve agricultural management, and how ICT is especially useful for environmental, resource, and ecosystems management and for geospatial landscape planning.

Global Business: Concepts, Methodologies, Tools and Applications (4 Vols.)

Information Resources Management Association (USA)

Global Business: Concepts, Tools, and Methodologies is designed to provide students and scholars with an in-depth body of knowledge from the cutting-edge of modern business research. This multi-volume reference examines critical issues and emerging trends in global business. With topics ranging from managing new information technology in global business operations to ethics and communication strategies, this collection is a valuable reference tool for academics and practitioners alike.
Land Use, Climate Change and Biodiversity Modeling: Perspectives and Applications

Yonggyut Trisurat (Kasetsart University, Thailand), Rajendra P. Shrestha (Asian Institute of Technology, Thailand), and Rob Alkemade (Netherlands Environment Assessment Agency, The Netherlands)

This book appears at the right time for the field and is written to bring insights and enlarge researchers’ view into this urgent and import field. It is occurring throughout the world. The book offers valuable insights into best practices, as well as up-to-date implementations from around the world. This book will also be invaluable for international and national civil society leaders who seek to effect political change. Written with professionals, researchers of various disciplines and interested laypersons in mind, this text aims to help readers understand the phenomenon of deliberative e-democracy that is occurring throughout the world.

Global Strategy and Practice of E-Governance: Examples from Around the World

Danilo Piagggesi (Fondazione Rosselli Americas (FRA) & International Knowledge Economy Program (IKEP), USA), Kristian Sund (Middlesex University, UK), and Walter Castelnovo (University of Insurbia, Italy)

Global Strategy and Practice of E-Governance: Examples from Around the World provides readers with an overview of relevant strategy and policy-level theoretical frameworks and examples, as well as up-to-date implementations from around the world. This book offers valuable insights into best practices, as well as some of the issues and challenges surrounding the governance of and with information and communication technologies in a globalized, knowledge-based world.

Green Technologies: Concepts, Methodologies, Tools and Applications (3 Vols.)

Information Resources Management Association (USA)

Green Technologies: Concepts, Methodologies, Tools and Applications assembles the most up-to-date collection of research results and recent discoveries in environmental and green technology. This comprehensive anthology covers a wide range of topics, including climate change, sustainable development, green diplomacy, and more.

Information Communication Technologies and the Virtual Public Sphere: Impacts of Network Structures on Civil Society

Robert Cropf (St. Louis University, USA) and William S. Krummenacher (Saint Louis University, USA)

Information Communication Technologies and the Virtual Public Sphere: Impacts of Network Structures on Civil Society demonstrates how the virtual public sphere uses information communications technology to empower ordinary citizens to engage in effective public discourse and provide the technological means to effect political change. Written with professionals, researchers of various disciplines and interested laypersons in mind, this text aims to help readers understand the phenomenon of deliberative e-democracy that is occurring throughout the world.

Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods

Vladimir Olej (University of Pardubice, Czech Republic), Iloa Obrišalová (University of Pardubice, Czech Republic), and Jičí Klupka (University of Pardubice, Czech Republic)

Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods presents processing methods and their applications, which are practical for decision making and task management at the regional level as well as for scientific studies in sustainable development assessment. This book serves as a reference guide for postgraduate students in the field of management as well as a critical guide for managers, government officials, and information professionals.
Applied Technology Integration in Governmental Organizations: New E-Government Research

Vishanth Weerakkody (Brunel University, UK)

**Applied Technology Integration in Governmental Organizations: New E-Government Research** presents academics, practitioners, and professionals with quality applied research results in the field of electronic and digital government, its applications, and impacts on governmental organizations around the world. This book provides organizational and managerial directions to support the greater use of management of electronic or digital government technologies in organizations, while epitomizing the current e-government research available. This field is exponentially expanding both in applications and importance, making the research in this book vital to preparing for the future of government and providing for societies of tomorrow.

ICT Acceptance, Investment and Organization: Cultural Practices and Values in the Arab World

Salam Abdallah (Abu Dhabi University, UAE) and Fayez Ahmad Albadri (ADMA-OPCO, Abu Dhabi, UAE)

**ICT Acceptance, Investment and Organization: Cultural Practices and Values in the Arab World** is a unique source of information outlining the importance of Information Communication Technology (ICT) adoption and diffusion. This book covers the Arab world's strong need for access to information systems, while still paying close attention to their culture and localization of practices. These values and beliefs are not only linked to factors such as language, governance and religion, but also influenced by cultural, political and legal issues. These are important factors that could have a far-reaching impact on their overall success or failure.

International Exploration of Technology Equity and the Digital Divide: Critical, Historical and Social Perspectives

Patricia Randolph Leigh (Iowa State University, USA)

**International Exploration of Technology Equity and the Digital Divide: Critical, Historical and Social Perspectives** explores and presents research that centers on the historical, political, sociological, and economic factors that engender global inequities. Acquiring such insights and knowledge is an important step towards rectifying socially ingrained inequities and a necessary step in working towards global justice in meaningful ways. This book aids those researching, teaching, and studying in the area of digital equity or in the broader contexts of social and global justice. Moreover, this reference provides valuable insights for professionals and researchers interested in examining issues of technology equity from various critical social theories.
Regional Innovation Systems and Sustainable Development: Emerging Technologies

Patricia Ordóñez de Pablos (University of Oviedo, Spain), W.B. Lee (Polytechnic University of Hong Kong), and Jingyuan Zhao (Harbin Institute of Technology, China)

Regional Innovation Systems and Sustainable Development: Emerging Technologies promotes scientific discussion on standards and practices of regional development, while also covering emerging research topics in regional innovation systems and sustained development. A leading source of information from experts in the field, this text demonstrates the capacity of regional innovation systems, information technology, management and sustainable development for the mutual understanding, prosperity and well-being of all the citizens in the world.

Coastal Informatics: Web Atlas Design and Implementation

Dawn Wright (Oregon State University, USA), Ned Dwyer (University College Cork, Ireland), and Valerie Cummins (University College Cork, Ireland)

Coastal Informatics: Web Atlas Design and Implementation reviews and presents the latest developments in the emerging field of coastal web atlases through a series of case studies giving practical guidance on geographic data management and documentation through standards-based metadata, as well as making underlying geographic databases interoperable. Readers will find this book of practical use in Web atlas design, development and implementation, improving spatial thinking in the coastal context.

E-Government Website Development: Future Trends and Strategic Models

Ed Downey (SUNY College at Brockport, USA), Carl D. Ekstrom (SUNY College at Brockport, USA), and Matthew A. Jones (SUNY College at Brockport, USA)

E-Government Website Development: Future Trends and Strategic Models focuses on three foundational aspects of e-government Web sites, namely concepts or theories that influence e-government Web site development, description and analysis of e-government Web site experience from different national perspectives, and possible models that might provide direction for future e-government development. The authors brilliantly incorporate a combination of basic concepts that will guide future development of governmental Web sites, descriptive research about the state of e-government in various parts of the world, and a specific prescription for the future of e-government Web sites into one essential compilation.

Handbook of Research on E-Government Readiness for Information and Service Exchange: Utilizing Progressive Information Communication Technologies

Hakikur Rahman (University of Minho, Portugal)

The Handbook of Research on E-Government Readiness for Information and Service Exchange: Utilizing Progressive Information Communication Technologies formulates leading ICT strategies for the development of efficient and effective e-government systems. This innovative collection provides cutting-edge knowledge to researchers and academicians with in-depth analysis of diversified approaches and patterns.

Cases on Adoption, Diffusion, and Evaluation of Global E-Governance Systems: Impact at the Grass Roots

Hakikur Rahman (Institute of Computer Management and Science, Bangladesh)

Cases on Adoption, Diffusion and Evaluation of Global E-Governance Systems: Impact at the Grass Roots accommodates theories, issues and methodologies for designing, implementing and operating e-government systems. The cases contained in this text cover a variety of services and applications that have been improving the governance of nations and economies. Focusing on pragmatic implementations and emphasizing e-government systems targeted to grass roots e-governance, this work assists readers in understanding basic aspects of e-government systems as well as their successful design and implementation.
Technological Advancement in Developed and Developing Countries: Discoveries in Global Information Management
Gordon Hunter (University of Lethbridge, Canada) and Felix Tan (AUT, New Zealand)
Technological Advancement in Developed and Developing Countries: Discoveries in Global Information Management discusses the organizational implications of technological growth and advancement at an international level. Selections investigate within- and cross-cultural research, offshoring and outsourcing, and strategic decisions organizations make to succeed in a global environment.

Managing IT Outsourcing Performance
Hans Solli-Sæther (Norwegian School of Management, Norway) and Petter Gottschalk (Norwegian School of Management, Norway)
Managing IT Outsourcing Performance provides a unique collection of methodologies and tools useful in managing relationships and task execution to help in developing successful IT outsourcing interactions. This leading reference collection enables researchers to examine current issues and allows managers to improve outsourcing relationships.

E-Agriculture and E-Government for Global Policy Development: Implications and Future Directions
Blessing M. Maumbe (Eastern Kentucky University, USA)
E-Agriculture and E-Government for Global Policy Development: Implications and Future Directions provides critical research and knowledge on electronic cultivation and political development experiences from around the world. This reference source describes real-life case studies, examines theoretical frameworks, and discusses key global policy development issues, challenges, and constraints on socioeconomic advancements.

Intelligent Information Systems and Knowledge Management for Energy: Applications for Decision Support, Usage, and Environmental Protection
Kostas Metaxiotis (National Technical University of Athens, Greece)
Intelligent Information Systems and Knowledge Management for Energy: Applications for Decision Support, Usage, and Environmental Protection provides in-depth analysis of the need for a holistic approach for the construction and engineering of cities and societies. This book examines issues and approaches for energy use and provides future direction of development.

IT Outsourcing: Concepts, Methodologies, Tools, and Applications (4 Vols.)
Kirk St. Amant (East Carolina University, USA)
IT Outsourcing: Concepts, Methodologies, Tools, and Applications covers a wide range of topics involved in the outsourcing of information technology through state-of-the-art collaborations of international field experts. This exhaustive compendium advances the IT outsourcing field and provides academicians, practitioners, and researchers with a unique collection of industry solutions.

E-Strategies for Technological Diffusion and Adoption: National ICT Approaches for Socioeconomic Development
Sherif Kamel (American University in Cairo, Egypt)
E-Strategies for Technological Diffusion and Adoption: National ICT Approaches for Socioeconomic Development provides comprehensive coverage and definitions of the most important issues, concepts, trends, and technologies related to the adoption, diffusion, and adaptation of national electronic strategies for ICTs in socioeconomic development.
Decision Support Systems in Agriculture, Food and the Environment: Trends, Applications and Advances
Basil Manos (Aristotle University of Thessaloniki, Greece), Konstantinos Paparrizos (University of Macedonia, Greece), Nikolaos Matisannis (Technical University of Crete, Greece), and Jason Papathanasiou (University of Macedonia, Greece)

Decision Support Systems in Agriculture, Food and the Environment: Trends, Applications and Advances presents the development of DSS for managing agricultural and environmental systems, focusing on the exposition of innovative methodologies, from web-mobile systems to artificial intelligence and knowledge-based DSS, as well as their applications in every aspect from harvest planning to international food production and land management. This book provides an in-depth look into the growing importance of DSS in agriculture.

Corporate Environmental Management Information Systems: Advancements and Trends
Frank Teuteberg (University of Osnabrueck, Germany) and Jorge Marx Gomez (University of Oldenburg, Germany)

Corporate Environmental Management Information Systems: Advancements and Trends addresses the continuing need for companies to take a holistic and strategic approach towards material and energy efficiency, emission and waste reduction, recycling, stakeholder engagement, and legal compliance. As Corporate Environmental Management Information Systems that support only operational goals are becoming obsolete, the need for a reference redefining these systems to provide integrated solutions to environmental and economic problems is needed.

Technologies for Migration and Commuting Analysis: Spatial Interaction Data Applications
John Stillwell (University of Leeds, UK), Oliver Duke-Williams (University of Leeds, UK), and Adam Dennett (University of Leeds, UK)

Technologies for Migration and Commuting Analysis: Spatial Interaction Data Applications addresses the technical and data-related side of studying population flows. With expert international contributors currently working in the field, this authoritative book allows readers to better understand interaction data and ways knowledge of population flows can be put to use.

Sustainable Urban and Regional Infrastructure Development: Technologies, Applications and Management
Tan Yigitcanlar (Queensland University of Technology, Australia)

Sustainable Urban and Regional Infrastructure Development: Technologies, Applications and Management bridges the gap in the current literature by addressing the overall problems present in society’s major infrastructures, and the technologies that may be applied to overcome these problems. It focuses on ways in which energy intensive but ‘invisible’ (to the general public) facilities can become green or greener. The studies presented are lessons to be learnt from our neighbors and from our own backyard, and provide an excellent general overview of the issues facing us all.

Handbook of Research on E-Planning: ICTs for Urban Development and Monitoring
Carlos Nunes Silva (University of Lisbon, Portugal)

The Handbook of Research on E-Planning: ICTs for Urban Development and Monitoring provides relevant theoretical perspectives on the use of ICT in urban planning as well as an account of the most recent developments in the practice of e-planning in different regions of the world. Discussing theories and methods, citizen participation, and innovation in urban management in e-planning, this book is essential for those who want to improve their knowledge about the use of ICT in urban planning, focusing greatly on its strengths, weaknesses, and opportunities.
Citizens and E-Government: Evaluating Policy and Management
Christopher G. Reddick
(The University of Texas at San Antonio, USA)

Citizens and E-Government: Evaluating Policy and Management examines the role that citizens play in the development of electronic government or e-government, specifically focusing on the impact of e-government and citizens while exploring issues of policy and management. This book not only focuses on the adoption of e-government and its impact on citizens, but it also discusses the effectiveness of this technology as a way of improving citizen access and engagement with their government. Overall, this book is essential for those interested in the importance of citizens in information technology adoption and development of electronic government.

Politics, Democracy and E-Government: Participation and Service Delivery
Christopher G. Reddick
(The University of Texas at San Antonio, USA)

Politics, Democracy and E-Government: Participation and Service Delivery examines how e-government impacts politics and democracy in both developed and developing countries, discussing the participation of citizens in government service delivery. This book brings forth the idea that e-government has a direct influence on the important function of governing through participation and service delivery. Containing chapters from leading e-government scholars and practitioners from across the globe, the overall objective of this book is accomplished through its discussion on the influences of e-government on democratic institutions and processes.

E-Commerce Adoption and Small Business in the Global Marketplace: Tools for Optimization
Brychan Thomas (University of Glamorgan Business School, UK) and Geoff Simmons (University of Ulster, UK)

E-Commerce Adoption and Small Business in the Global Marketplace: Tools for Optimization focuses on the adoption of e-commerce applications that optimize potential opportunities presented to organizations. With expert international contributions, this advanced publication provides a comprehensive account of developments in the new and exciting area of research and study.

Systems Thinking and E-Participation: ICT in the Governance of Society
Jose Rodrigo Cordoba-Pachon (University of London, UK) and Alejandro Elias Ochoa-Arias (Universidad de los Andes, Mérida, Venezuela)

Systems Thinking and E-Participation: ICT in the Governance of Society provides a systemic-based inquiry platform to explore boundaries, limits, and advantages of information and communication technology use in public decision making processes. This publication examines the impact of governmental technologies useful to those involved with politics, sociology, and information systems.

Sustainable Economic Development and the Influence of Information Technologies: Dynamics of Knowledge Society Transformation
Muhammad Karatas (Mugla University, Turkey) and Mustafa Zhini Tunca (Suleyman Demirel University, Turkey)

Sustainable Economic Development and the Influence of Information Technologies: Dynamics of Knowledge Society Transformation provides relevant theoretical frameworks and the latest empirical research findings in the area of information technology as it relates to sustainable economic development and the development of knowledge societies. This innovative publication highlights the influence of information technologies and the significance of the knowledge society on economic development in the 21st century.
Security and Forensics

As criminals uncover new opportunities in the digital age, security professionals must adapt their practices of protecting information and individuals from threats such as identity theft, computer viruses, terrorism, and other attacks. In an effort to stay ahead of those who threaten our security, continual research is necessary to develop new tools and effective methods of protection.

IGI Global’s Security and Forensics subject area features publications relating to topics in criminal science, forensics, IT security, cyber warfare, terrorism, and surveillance. Featuring innovative research on diverse topics, this collection is ideally designed for academicians, students, security professionals, and lawmakers interested in learning more about the latest threats to security at both the personal and national level as well as ways to protect against future attacks.
Handbook of Research on Emerging Developments in Data Privacy

Manish Gupta
(State University of New York at Buffalo, USA)

The Handbook of Research on Emerging Developments in Data Privacy brings together new ideas on how to deal with potential leaks of valuable customer information. Highlighting the legal aspects of identity protection, trust and security, and detection techniques, this comprehensive work is a valuable resource for any business, legal, or technology professional looking to improve information security within their organization.

Handbook of Research on Securing Cloud-Based Databases with Biometric Applications

Ganesh Chandra Deka (Ministry of Labour & Employment, India) and Sambit Bakshi (National Institute of Technology Rourkela, India)

The Handbook of Research on Securing Cloud-Based Databases with Biometric Applications explores the latest innovations in promoting cloud security through human authentication techniques. Exploring methods of access by identification, including the analysis of facial features, fingerprints, DNA, dental characteristics, and voice patterns, this publication is designed especially for IT professionals, academicians, and upper-level students seeking current research surrounding cloud security.

Handbook of Research on Threat Detection and Countermeasures in Network Security

Alaa Hussein Al-Hamami (Amman Arab University, Jordan) and Ghossoon M. Waleed al-Saadoon (Applied Sciences University, Kingdom of Bahrain)

The Handbook of Research on Threat Detection and Countermeasures in Network Security presents the latest methodologies and trends in detecting and preventing network threats. Investigating the potential of current and emerging security technologies, this publication is an all-inclusive reference source for academicians, researchers, students, professionals, practitioners, network analysts, and technology specialists interested in the simulation and application of computer network protection.

Information Security in Diverse Computing Environments

Anne Kayem (Department of Computer Science, University of Cape Town, South Africa) and Christoph Meinel (Hasso-Plattner-Institute for IT Systems Engineering, University of Potsdam, Potsdam, Germany)

Information Security in Diverse Computing Environments provides the latest empirical research and theoretical frameworks in the area of information security. This reference book presents research on developing sufficient security measures for new environments by discussing challenges faced by researchers as well as unconventional solutions to these problems. This book will be useful for academics, students, professionals, executives, and researchers who want to improve their understanding of the role of information security at different levels of the knowledge society.

Network Topology in Command and Control: Organization, Operation, and Evolution

T. J. Grant (R-BAR, The Netherlands), R. H. P. Janssen (Netherlands Defence Academy, The Netherlands), and H. Monsuur (Netherlands Defence Academy, The Netherlands)

Network Topology in Command and Control: Organization, Operation, and Evolution aims to connect the fields of C2 and network science. Featuring timely research on topics pertaining to the C2 network evolution, security, and modeling, this publication is ideal for reference use by students, academicians, and security professionals in the fields of C2 and network science.
Infringement, judges, software professionals, software forensic experts, lawyers in the field of copyright infringement, it is an essential resource for software forensic experts, lawyers in the field of copyright infringement. This book highlights theoretical, functional, and procedural matters in the investigation of copyright infringement of software products, as well as the development of forensic technologies to detect and eliminate software piracy. As this publication will explore comprehensive topics on the forensic process of software piracy, it is an essential resource for software forensic experts, lawyers in the field of copyright infringement, judges, software professionals, software developers, and students.

Judiciary-Friendly Forensics of Software Copyright Infringement
Vinod Polpaya Bhattathiripad (G J Software Forensics, India)

Judiciary-Friendly Forensics of Software Copyright Infringement discusses the forensics of software copyright infringement. This book highlights theoretical, functional, and procedural matters in the investigation of copyright infringement of software products, as well as the development of forensic technologies to detect and eliminate software piracy. As this publication will explore comprehensive topics on the forensic process of software piracy, it is an essential resource for software forensic experts, lawyers in the field of copyright infringement, judges, software professionals, software developers, and students.

Multidisciplinary Perspectives in Cryptology and Information Security
Sattar B. Sadikhan Al Maliky (University of Babylon, Iraq) and Nidaa A. Abbas (University of Babylon, Iraq)

Multidisciplinary Perspectives in Cryptology and Information Security considers an array of multidisciplinary applications and research developments in the field of cryptology and communication security. This publication offers a comprehensive, in-depth analysis of encryption solutions and will be of particular interest to IT professionals, cryptologists, and researchers in the field.

Exchanging Terrorism Oxygen for Media Airwaves: The Age of Terroredia
Mahmoud Eid (University of Ottawa, Canada)

Exchanging Terrorism Oxygen for Media Airwaves: The Age of Terroredia provides a timely and thorough discussion on a wide range of issues surrounding terrorism in relation to both traditional and new media. Comprised of insights and research from leading experts in the fields of terrorism and media studies, this publication presents various topics relating to Terroredia: understanding of terrorism and the role of the media, terrorism manifestations and media representations of terrorism, types of terrorism and media stereotypes of terrorism, terrorism tactics and media strategies, the war on terrorism, the function of terrorism and the employment of the media, new terrorism and new media, contemporary cases of terrorist-media interactions, the rationality behind terrorism and counterterrorism, as well as the responsibility of the media.
Analyzing Security, Trust, and Crime in the Digital World

Hamid Nemati
(The University of North Carolina – Greensboro, USA)

Analyzing Security, Trust, and Crime in the Digital World explores techniques and technologies used to secure data and prevent intrusion in virtual environments. Within these pages, computer scientists, programmers, engineers, and practitioners will find meaningful research on intrusion detection and authentication techniques in order to further defend their own systems and protect the information therein.

Research Developments in Biometrics and Video Processing Techniques

Rajeev Srivastava (Indian Institute of Technology (BHU), India), S.K. Singh (Indian Institute of Technology (BHU), India), and K.K. Shukla (Indian Institute of Technology (BHU), India)

Research Developments in Biometrics and Video Processing Techniques investigates advanced techniques in user identification and security, including retinal, facial, and finger print scans as well as signature and voice authentication models. Through its in-depth examination of computer vision applications and other biometric security technologies, this reference volume will provide researchers, engineers, developers, and students with insight into the latest research on enhanced security systems design and development.

Trust Management in Mobile Environments: Autonomic and Usable Models

Zheng Yan
(Xidian University, China and Aalto University, Finland)

Trust Management in Mobile Environments: Autonomic and Usable Models explores current research on the security of mobile and wireless communications. This book covers fundamental concepts of network security technologies while analyzing malicious threats which can compromise network integrity. This book is an essential tool for researchers and professionals interested in improving their understanding of the strategic role of trust at different levels of information and knowledge society.

Security, Privacy, Trust, and Resource Management in Mobile and Wireless Communications

Danda B. Rawat (Georgia Southern University, USA), Bhed B. Bista (Iwate Prefectural University, Japan), and Gongjun Yan (University of Southern Indiana, USA)

Security, Privacy, Trust, and Resource Management in Mobile and Wireless Communications examines the current scope of theoretical and practical applications on the security of mobile and wireless communications. This book covers fundamental concepts of current issues, challenges, and solutions in wireless and mobile networks and will serve as a reference for graduate students, professors, and researchers in this emerging field.
Evolution and Standardization of Mobile Communications Technology
DongBack Seo (University of Groningen, Netherlands and Hansung University, South Korea)
Evolution and Standardization of Mobile Communications Technology examines methods of developing and regulating compatibility standards in the ICT industry, assisting organizations in their application of the latest communications technologies in their business practices. Organizations maintain competitive advantage by implementing cutting-edge technologies as soon as they appear. This book serves as a compendium of the most recent research and development in this arena, providing readers with the insight necessary to take full advantage of a wide range of ICT solutions. This book is part of the Advances in IT Standards and Standardization Research series collection.

Social Network Engineering for Secure Web Data and Services
Luca Cavallone (National Research Council of Italy, Italy), Mauro Coccoli (University of Genoa, Italy), and Alessio Merlo (University of Genoa & Università Telematica e-campus, Italy)
Social Network Engineering for Secure Web Data and Services provides empirical research on the engineering of social network infrastructures, the development of novel applications, and the impact of social network-based services over the internet. This comprehensive collection highlights issues and solutions developed to prevent security threats and introduce proper countermeasures for attacks on every level. This book is useful for professionals and researchers in the field of social network and web security.

Ethical Governance of Emerging Technologies Development
Fernand Doridot (Centre for Ethics, Technics and Society (CETS), et al.
Ethical Governance of Emerging Technologies Development combines multiple perspectives on ethical backgrounds, theories, and management approaches when implementing new technologies into an environment. Understanding the ethical implications associated with utilizing new advancements in technology is useful for professionals, researchers, and graduate students interested in this growing area of research.
Advanced Security and Privacy for RFID Technologies
Ali Mir (Ryerson University, Canada)

Advanced Security and Privacy for RFID Technologies addresses these concerns with its comprehensive coverage on current issues with security models and everyday threats and vulnerabilities. This informative publication not only addresses the security risks involved with RFID technologies, but also gives insight on some possible solutions and prevents. Researchers, professionals, and practitioners aiming to better understand the risks involved with these developing technologies will benefit from this book’s expansive coverage on the topic.

IT Policy and Ethics: Concepts, Methodologies, Tools, and Applications (3 Vols.)
Information Resources Management Association (USA)

IT Policy and Ethics: Concepts, Methodologies, Tools, and Applications is a comprehensive collection of research on the features of modern organizations in order to advance the understanding of IT standards. This is an essential reference source for researchers, scholars, policymakers, IT managers as well as organizations interested in carrying out research in IT policies.

Critical Information Infrastructure Protection and Resilience in the ICT Sector
Paul Theron (Scientist, Thales, Resilience Studies Team), Sandro Bologna (AIIC, Italy)

Critical Information Infrastructure Protection and Resilience in the ICT Sector brings together a variety of empirical research on the resilience in the ICT sector and critical information infrastructure protection in the context of uncertainty and lack of data about potential threats and hazards. This book presents a variety of perspectives on computer science, economy, risk analysis, and social sciences; beneficial to academia, governments, and other organisations engaged or interested in CIIP, Resilience and Emergency Preparedness in the ICT sector.

Securing Critical Infrastructures and Critical Control Systems: Approaches for Threat Protection
Christopher Laing (Northumbria University, UK), Atta Badii (University of Reading, UK), and Paul Vickers (Northumbria University, UK)

Securing Critical Infrastructures and Critical Control Systems: Approaches for Threat Protection provides a full and detailed understanding of the vulnerabilities and security threats that exist within an industrial control system. The collection of research defines and analyzes the technical, procedural and managerial responses to securing these systems.

Cybercrime and Cloud Forensics: Applications for Investigation Processes
Keyun Ruan (University College Dublin, Ireland)

Cybercrime and Cloud Forensics: Applications for Investigation Processes presents a collection of research and case studies of applications for investigation processes in cloud computing environments. This reference source brings together the perspectives of cloud customers, security architechts as well as law enforcement agencies on the new area of cloud forensics.

Developing and Evaluating Security-Aware Software Systems
Khaled M. Khan (Qatar University, Qatar)

Developing and Evaluating Security-Aware Software Systems provides innovative ideas and methods on the development, operation, and maintenance of secure software systems and aims to highlight the construction of a functional software system and a secure system simultaneously. This book is practical for researchers, academics and practitioners in the software engineering and security fields.
Cyber Crime and the Victimization of Women: Laws, Rights and Regulations
Debarati Halder (Centre for Cyber Victim Counselling (CCVC), India) and K. Jaishankar (Manonmaniam Sundaranar University, India)
Cyber Crime and the Victimization of Women: Laws, Rights and Regulations is a unique and important contribution to the literature on cyber crime. It explores gendered dimensions of cyber crimes like adult bullying, cyber stalking, hacking, defamation, morphed pornographic images, and electronic blackmailing. These and other tactics designed to inflict intimidation, control, and other harms are frequently committed by perpetrators who, for many reasons, are unlikely to be identified or punished. Scholars, researchers, law makers, and ordinary women and their supporters will gain a better understanding of cyber victimization and discover how to improve responses to cyber crimes against women.

Crime Prevention Technologies and Applications for Advancing Criminal Investigation
Chang-Tsun Li (University of Warwick, UK) and Anthony TS Ho (University of Surrey, UK)
Crime Prevention Technologies and Applications for Advancing Criminal Investigation addresses the use of electronic devices and software for crime prevention, investigation, and the application of a broad spectrum of sciences to answer questions of interest to the legal system. This book fosters a forum for advancing research and development of the theory and practice of digital crime prevention and forensics.

Ethical Impact of Technological Advancements and Applications in Society
Rocci Luppincini (University of Ottawa, Canada)
Ethical Impact of Technological Advancements and Applications in Society explores the ethical challenges of these innovations, providing cutting-edge analysis of designs, developments, impacts, policies, theories, and methodologies related to ethical aspects of technology in society. It advances scholarship on both in established areas such as computer ethics, engineering ethics, and biotech ethics as well as nascent areas of research such as nanoethics, artificial morality, and neuroethics.
Security and Forensics

Law, Policy, and Technology: Cyberterrorism, Information Warfare, and Internet Immobilization
Pauline C. Reich (Waseda University School of Law, Japan) and Eduardo Gelbstein (Webster University, Switzerland)

Law, Policy, and Technology: Cyberterrorism, Information Warfare, and Internet Immobilization provides relevant frameworks and best practices as well as current empirical research findings in the area. It is aimed at professionals who want to improve their understanding of the impact of cyber-attacks on critical infrastructures and other information systems essential to the smooth running of society, how such attacks are carried out, what measures should be taken to mitigate their impact and what lessons can be learned from the attacks and simulations of the last few years.

Anonymous Security Systems and Applications: Requirements and Solutions
Shinsuke Tamura (University of Fukui, Japan)

Anonymous Security Systems and Applications: Requirements and Solutions outlines the benefits and drawbacks of anonymous security technologies designed to obscure the identities of users. These technologies may help solve various privacy issues and encourage more people to make full use of information and communication technologies, and may help to establish more secure, convenient, efficient, and environmentally-friendly societies.

Strategic and Practical Approaches for Information Security Governance: Technologies and Applied Solutions
Manish Gupta (State University of New York, USA), John Walp (M&T Bank Corporation, USA), and Raj Sharman (State University of New York, USA)

Strategic and Practical Approaches for Information Security Governance: Technologies and Applied Solutions presents high-quality research papers and practice articles on management and governance issues in the field of information security. The main focus of the book is to provide an organization with insights into practical and applied solutions, frameworks, technologies and practices on technological and organizational factors. The book aims to be a collection of knowledge for professionals, scholars, researchers and academicians working in this field that is fast evolving and growing as an area of information assurance.

Optimizing Information Security and Advancing Privacy Assurance: New Technologies
Hamid R. Nemati (The University of North Carolina at Greensboro, USA)

Optimizing Information Security and Advancing Privacy Assurance: New Technologies reviews issues and trends in security and privacy at an individual user level, as well as within global enterprises. Enforcement of existing security technologies, factors driving their use, and goals for ensuring the continued security of information systems are discussed in this multidisciplinary collection of research, with the primary aim being the continuation and promotion of methods and theories in this far-reaching discipline.

Situational Awareness in Computer Network Defense: Principles, Methods, and Applications
Cyril Onwubiko (Research Series Ltd, UK) and Thomas Owens (Brunel University, UK)

Situational Awareness in Computer Network Defense: Principles, Methods, and Applications provides academia and organizations insights into practical and applied solutions, frameworks, technologies, and implementations for situational awareness in computer networks. This book presents situational awareness solutions in Computer Network Defense (CND) currently being researched or deployed. The key objective is to fill a gap that exists in the way CND and security are being managed and managed. This book addresses the fact that managing risks has never been so critical. This book addresses the fact that managing risks has never been so critical. This book addresses the fact that managing risks has never been so critical.
Digital Identity and Access Management: Technologies and Frameworks

Raj Sharman (State University of New York-Buffalo, USA), Sanjukta Das Smith (State University of New York-Buffalo, USA), and Manish Gupta (State University of New York-Buffalo, USA)

Digital Identity and Access Management: Technologies and Frameworks explores important and emerging advancements in DIAM systems. The book helps researchers and practitioners in digital identity management to generate innovative answers to an assortment of problems, as system managers are faced with major organizational, economic and market changes and are also expected to increase reach and ease of access to users across cyberspace while guaranteeing the reliability and privacy of highly sensitive data.

Information Assurance and Security Technologies for Risk Assessment and Threat Management: Advances

Te-Shun Chou (East Carolina University, USA)

Information Assurance and Security Technologies for Risk Assessment and Threat Management: Advances details current trends and advances in information assurance and security, as well as explores emerging applications. The book aims to provide the readers with an opportunity to build a strong, fundamental understanding of theory and methods and thus to find solutions for many of today’s most interesting and challenging problems regarding information assurance and security.

The Psychology of Cyber Crime: Concepts and Principles

Grainne Kirwan (Institute of Art, Design and Technology, Ireland) and Andrew Power (Institute of Art, Design, and Technology, Ireland)

The Psychology of Cyber Crime: Concepts and Principles aims to be the leading reference examining the psychology of cybercrime. This book considers many aspects of cybercrime, including research on offenders, legal issues, the impact of cybercrime on victims, punishment, and preventative measures. It is designed as a source for researchers and practitioners in the disciplines of criminology, cyberpsychology and forensic psychology, though it is also likely to be of significant interest to many students of information technology and other related disciplines.
Continuous Authentication Using Biometrics: Data, Models, and Metrics
Issa Traore (University of Victoria, Canada) and Ahmed Awad E. Ahmed (University of Victoria, Canada)
Continuous Authentication Using Biometrics: Data, Models, and Metrics presents chapters on continuous authentication using biometrics that have been contributed by the leading experts in this recent, fast growing research area. These chapters collectively provide a thorough and concise introduction to the field of biometric-based continuous authentication. The book covers the conceptual framework underlying continuous authentication and presents detailed processing models for various types of practical continuous authentication applications.

Investigating Cyber Law and Cyber Ethics: Issues, Impacts and Practices
Alfreda Dudley (Towson University, USA) and James Braman (Towson University, USA); Giovanni Vincenti (Towson University, USA)
Investigating Cyber Law and Cyber Ethics: Issues, Impacts and Practices discusses the impact of cyber ethics and cyber law on information technologies and society. Featuring current research, theoretical frameworks, and case studies, the book will highlight the ethical and legal practices used in computing technologies, increase the effectiveness of computing students and professionals in applying ethical values and legal statues, and provide insight on ethical and legal discussions of real-world applications.

Frameworks for ICT Policy: Government, Social and Legal Issues
Esharenana E. Adomi (Delta State University, Nigeria)
Frameworks for ICT Policy: Government, Social and Legal Issues is a reference on ICT policy framework and a guide to those who are involved in ICT policy formulation, implementation, adoption, monitoring, evaluation and application. This comprehensive publication provides background information for scholars and researchers who are interested in carrying out research on ICT policies and promotes the understanding of policies guiding technology.

Network Security, Administration and Management: Advancing Technology and Practice
Dulal Chandra Kar (Texas A&M University, USA) and Mahbubur Rahman Syed (Minnesota State University, USA)
Network Security, Administration and Management: Advancing Technology and Practice identifies the latest technological solutions, practices and principles on network security while exposing possible security threats and vulnerabilities of contemporary software, hardware, and networked systems. This book is a collection of current research and practices in network security and administration to be used as a reference by practitioners as well as a text by academicians and trainers.

Chang-Tsun Li (University of Warwick, UK) and Anthony T.S. Ho (University of Surrey, UK)
New Technologies for Digital Crime and Forensics: Devices, Applications, and Software provides theories, methods, and studies on digital crime prevention and investigation, which are useful to a broad range of researchers and communities. This field is under constant evolution as the nature of digital crime continues to change and new methods for tracking and preventing digital attacks are developed.
ICT Ethics and Security in the 21st Century: New Developments and Applications
Marian Quigley (Monash University, Australia)

ICT Ethics and Security in the 21st Century: New Developments and Applications highlights ethical dilemmas and security challenges posed by the rise of more recent technologies along with ongoing challenges such as the digital divide, threats to privacy, and organizational security measures. This book comprises a valuable resource for ICT researchers, educators, students, and professionals along with both employers and employees of large organizations searching for resolutions to the everyday ethical and security dilemmas we must grapple with in our highly globalised and technologized world.

Cyber Security, Cyber Crime and Cyber Forensics: Applications and Perspectives
Raghuraman Sethanam (Arizona State University, USA), M. Sethumadhavan (Amrita University, India), and Mohit Virendra (Brocade Communications Systems, USA)

Cyber Security, Cyber Crime and Cyber Forensics: Applications and Perspectives provides broad coverage of technical and socio-economic perspectives for utilizing information and communication technologies and developing practical solutions in cyber security, cyber crime, and cyber forensics.

Personal Data Privacy and Protection in a Surveillance Era: Technologies and Practices
Christina Akrivopoulou (Aristotle University of Thessaloniki, Greece) and Athanasios Psykgas (Yale Law School, USA)

Personal Data Privacy and Protection in a Surveillance Era: Technologies and Practices spans a number of interdependent and emerging topics in the area of legal protection of privacy and technology. This book explores the new threats that cyberspace poses to the privacy of individuals, as well as the threats that surveillance technologies generate in public spaces and in digital communication. It examines media practices and privacy frameworks in the fields of copyright, digital management and genetic information. New models of data protection are proposed along with their advantages and disadvantages.
Applied Cryptography for Cyber Security and Defense: Information Encryption and Cyphering

Hamid R. Nemati (University of North Carolina-Greensboro, USA) and Li Yang (University of Tennessee, USA)

Applied Cryptography for Cyber Security and Defense: Information Encryption and Cyphering applies the principles of cryptographic systems to real-world scenarios, explaining how cryptography can protect businesses' information and ensure privacy for their networks and databases. It delves into the specific security requirements within various emerging application areas and discusses procedures for engineering cryptography into system design and implementation.

Information Assurance and Security Ethics in Complex Systems: Interdisciplinary Perspectives

Melissa Jane Dark (Purdue University, USA)

Information Assurance and Security Ethics in Complex Systems: Interdisciplinary Perspectives offers insight into social and ethical challenges presented by modern technology. Aimed at students and practitioners in the rapidly growing field of information assurance and security, this book addresses issues of privacy, access, safety, liability and reliability in a manner that asks readers to think about how the social context is shaping technology and how technology is shaping social context and, in so doing, to rethink conceptual boundaries.

Chaos Synchronization and Cryptography for Secure Communications: Applications for Encryption

Santo Banerjee (Politecnico di Torino, Italy)

Chaos Synchronization and Cryptography for Secure Communications: Applications for Encryption explores the combination of ordinary and time delayed systems and their applications in cryptographic encoding. This innovative publication presents a critical mass of the most sought after research, providing relevant theoretical frameworks and the latest empirical research findings in this area of study.

Handbook of Research on Information Communication Technology Policy: Trends, Issues and Advancements (2 Vols.)

Esharenana E. Adomi (Delta State University, Nigeria)

The Handbook of Research on Information Communication Technology Policy: Trends, Issues and Advancements provides a comprehensive and reliable source of information on current developments in information communication technologies. This source includes ICT policies: a guide on ICT policy formulation, implementation, adoption, monitoring, evaluation and application; and background information for scholars and researchers interested in carrying out research on ICT policies.

Corporate Hacking and Technology-Driven Crime: Social Dynamics and Implications

Thomas J. Holt (Michigan State University, USA), Bernadette H. Schell (President's Advisor on Cybercrime, University of Ontario, Canada)

Corporate Hacking and Technology-Driven Crime: Social Dynamics and Implications addresses various aspects of hacking and technology-driven crime, including the ability to understand computer-based threats, identify and examine attack dynamics, and find solutions. Including findings from experts in Criminal Justice, Business, and Information Technology Security from around the world, this book presents current research undertakings and findings in order to find interdisciplinary solutions to the complex domain of cyber and network breaches.

Pervasive Information Security and Privacy Developments: Trends and Advancements

Hamid Nemati (University of North Carolina, Greensboro, USA)

Pervasive Information Security and Privacy Developments: Trends and Advancements compiles research on topics such as technical, regulatory, organizational, managerial, cultural, ethical, and human aspects of information security and privacy. This reference offers methodologies, research frameworks, theory development and validation, case studies, simulations, technological architectures, infrastructure issues in design, and implementation of secure and privacy preserving initiatives.
Homeland Security Preparedness and Information Systems: Strategies for Managing Public Policy

Christopher G. Reddick (University of Texas, San Antonio, USA)

Homeland Security Preparedness and Information Systems: Strategies for Managing Public Policy delves into the issues and challenges that public managers face in the adoption and implementation of information systems for homeland security. This publication provides solutions for those interested in adopting additional information systems security measures in their governments.

Information Communication Technology Law, Protection and Access Rights: Global Approaches and Issues

Irene Maria Portela (Polytechnic Institute of Cávado and Ave, Portugal) and Maria Manuela Cruz-Cunha (Polytechnic Institute of Cávado and Ave, Portugal)

Information Communication Technology Law, Protection and Access Rights: Global Approaches and Issues identifies key issues in the relationship between ICT and law, ethics, politics and social policy. This comprehensive reference addresses relevant issues from the practical, legal, ethical, political and social policy perspectives, drawing attention to diverse global approaches to the challenges posed by ICT to access rights.

Trust and Technology in a Ubiquitous Modern Environment: Theoretical and Methodological Perspectives

Dominika Latusek (Kozminski Business School, Poland) and Alexandra Gerbasi (California State University Northridge, USA)

Trust and Technology in a Ubiquitous Modern Environment: Theoretical and Methodological Perspectives provides a variety of theoretical perspectives on the topics of trust and technology, as well as some empirical investigations into the trust-building, trust-maintenance, and trust-destroying practices in the context of technology. It presents research positioned at the intersection of the issues of trust within and between individuals, and organizations, and technology under various guises, for example, high-tech work environments, computer-mediated communication, and the Internet as a business environment.

Toward Corporate IT Standardization Management: Frameworks and Solutions

Robert van Wessel (Tilburg University, Netherlands)

Toward Corporate IT Standardization Management: Frameworks and Solutions details the IT standards conceptual model through insightful case studies that illustrate the factors affecting the performance of business processes. By offering organizations the opportunity to enhance process performance through IT standardization, this reference work demonstrates the effectiveness of IT standards, and the applicable techniques for implementation and management of such practices. This book features information useful to educators and students in the fields of Information Systems, IT-Management, Business Studies, and Economics, as well as IT practitioners and IS Managers.

Advanced ICTs for Disaster Management and Threat Detection: Collaborative and Distributed Frameworks

Elefane Asimakopoulou (Loughborough University, UK) and Nik Bessis (University of Bedfordshire, UK)

Advanced ICTs for Disaster Management and Threat Detection: Collaborative and Distributed Frameworks demonstrates how strategies and state-of-the-art ICT have and/or could be applied to serve as a vehicle to advance disaster management approaches, decisions and practices. This book provides both a conceptual and practical guidance to disaster management while also identifying and developing effective and efficient approaches, mechanisms, and systems using emerging technologies to support an effective operation. This state-of-the-art reference collection attempts to prompt the future direction for disaster managers to identify applicable theories and practices in order to mitigate, prepare for, respond to and recover from various foreseen and/or unforeseen disasters.
Web Services Security Development and Architecture: Theoretical and Practical Issues
Carlos Gutierrez (Correos Telecom, Spain), Eduardo Fernandez-Medina (University of Castilla-La Mancha, Spain), and Mario Piattini (University of Castilla-La Mancha, Spain)
Web Services Security Development and Architecture: Theoretical and Practical Issues explores a global approach to methodical development in constructing safety architectures for online systems. Addressing security concerns, this critical mass of the most sought after knowledge bridges the gap between practical and theoretical approaches in the field.

Technoethics and the Evolving Knowledge Society: Ethical Issues in Technological Design, Research, Development, and Innovation
Rocci Luppicini (University of Ottawa, Canada)
Technoethics and the Evolving Knowledge Society: Ethical Issues in Technological Design, Research, Development, and Innovation examines human processes and practices connected to technology embedded within social, political, and moral spheres of life. This innovative publication engages readers in critical debates connected to the ethical dimensions of a technological society.

Trust Modeling and Management in Digital Environments: From Social Concept to System Development
Zheng Yan (Nokia Research Center, Finland)
Trust Modeling and Management in Digital Environments: From Social Concept to System Development examines how reliance is transferred from a social to a digital concept, enabling digital system users to build up confidence in their system. A defining body of sought after research, this innovative publication provides an understanding of the current challenges, solutions, and their limitations to those interested in this advancing field.

Collaborative Computer Security and Trust Management
Jean-Marc Seigneur (Université de Genève, Switzerland) and Adam Slagell (National Center for Supercomputing Applications, USA)
Collaborative Computer Security and Trust Management combines perspectives of leading researchers in collaborative security to discuss recent advances in this burgeoning new field. Practitioners, researchers, and academicians are presented with lessons learned by international experts to meet the new challenges of security in the global information age.

Handbook of Research on Computational Forensics, Digital Crime, and Investigation: Methods and Solutions
Chang-Tsun Li (University of Warwick, UK)
The Handbook of Research on Computational Forensics, Digital Crime, and Investigation: Methods and Solutions addresses a broad range of electronic devices and software for crime prevention and investigation. This defining body of research covers a wide spectrum of topics useful to a broad cross-sectional and multi-disciplinary readership.

Information Technology and the Ethics of Globalization: Transnational Issues and Implications
Robert A. Schultz (Woodbury University)
Information Technology and the Ethics of Globalization: Transnational Issues and Implications discusses the widespread influence of technologies across the globe with particular attention placed on moral consideration. This innovative publication provides researchers, academicians, and practitioners with a comprehensive survey of theories and insight into human considerations of this vast globalization.
Data-Exchange Standards and International Organizations: Adoption and Diffusion
Josephine Wapakabulo Thomas (Rolls-Royce, UK)

The Handbook of Research on Social and Organizational Liabilities in Information Security offers a critical mass of insightful, authoritative articles on the most salient contemporary issues of managing social and human aspects of information security. Published in two volumes, this comprehensive handbook is an invaluable resource for academicians and practitioners by addressing the most pressing issues facing cybersecurity from both a national and global perspective.

Cyber Security and Global Information Assurance: Threat Analysis and Response Solutions
Kenneth J. Knapp (U.S. Air Force Academy, USA)

The Handbook of Research on Information Security and Assurance provides a valuable resource for academicians and practitioners by addressing the most pressing issues facing cybersecurity from both a national and global perspective. This reference source takes a holistic approach to cyber security and information assurance by treating both the technical as well as managerial sides of the field.

Multimedia Forensics and Security
Chang-Tsun Li (University of Warwick, UK)

Multimedia Forensics and Security provides an in-depth treatment of advancements in the emerging field of multimedia forensics and security by tackling challenging issues such as digital watermarking for copyright protection, digital fingerprinting for transaction tracking, and digital camera source identification.
Social and Human Elements of Information Security: Emerging Trends and Countermeasures

Manish Gupta (State University of New York, USA) and Raj Sharman (State University of New York, USA)

Social and Human Elements of Information Security: Emerging Trends and Countermeasures provides insightful, high-quality research into the social and human aspects of information security. A comprehensive source of the latest trends, issues, and findings in the field, this book fills the missing gap in existing literature by bringing together the most recent work from researchers in the fast and evolving field of information security.

Statistical Techniques for Network Security: Modern Statistically-Based Intrusion Detection and Protection

Yun Wang (Yale-New Haven Health, USA)

Statistical Techniques for Network Security: Modern Statistically-Based Intrusion Detection and Protection bridges between applied statistical modeling techniques and network security to provide statistical modeling and simulating approaches to address the needs for intrusion detection and protection. Covering in-depth topics such as network traffic data, anomaly intrusion detection, and prediction events, this authoritative source collects must-read research for network administrators, information and network security professionals, statistics and computer science learners, and researchers in related fields.

Techniques and Applications for Advanced Information Privacy and Security: Emerging Organizational, Ethical, and Human Issues

Hamid Nemati (The University of North Carolina at Greensboro, USA)

Techniques and Applications for Advanced Information Privacy and Security: Emerging Organizational, Ethical, and Human Issues provides a thorough understanding of issues and concerns in information technology security. An advanced reference source covering topics such as security management, privacy preservation, and authentication, this book outlines the field and provides a basic understanding of the most salient issues in privacy concerns for researchers and practitioners.

Information Security and Ethics: Concepts, Methodologies, Tools, and Applications (6 Vols.)

Hamid Nemati (The University of North Carolina at Greensboro, USA)

Compiling over 250 chapters representing the work of 484 international experts in these fields, this commanding, six-volume collection examines a complete array of topics in this area, including authentication technologies, cyber crime, cryptographic tools, monitoring systems, forensic computing, and confidentiality applications and their relation to raising the level of security and ethical standards in technology-driven environments. Essential to the information technology collection of any library, Information Security and Ethics: Concepts, Methodologies, Tools, and Applications will serve the needs of researchers in a variety of related fields, including business, e-commerce, government, law enforcement, and many more.
Social Science

Society is constantly evolving, creating an interesting foundation for research into the ways in which humans are developing and interacting as part of this shift. The field of Social Science is broad, encompassing topics relating to everything from studying human behavior to issues that go beyond the individual and look at the broader scope of cultural studies.

IGI Global’s Social Science subject area strives to convey the latest research in a diverse set of topics relating to human behavior and society at large. Students, theorists, and researchers studying in diverse fields such as psychology, sociology, ethics, political science, theology, and economics will find the titles within this collection pertinent to furthering their knowledge in these areas.

InfoSci®-Social Science

The premier collection is a fully-searchable, customizable database that provides access to all chapters included in IGI Global books that have been published in the core subject area of social science. InfoSci-Social Science includes the work of hundreds of top scholars, and is a unique and unmatched benefit to your library.

Contact eresources@igi-global.com for product details and pricing options.
Urbanization and Migration as Factors Affecting Global Economic Development

Denis Ushakov (International College Suan Sunandha Rajabhat University, Thailand & Russian Academy of National Economy and Public Administration—South branch, Russia)

Urbanization and Migration as Factors Affecting Global Economic Development takes a close look at the impact of urbanization and international migration on the global economy. Studying the dynamics of these two phenomena in countries across the world, as well as the varying successes of regional regulations, this publication is a valuable resource for policymakers involved in regulating international migration and urbanization.

Exploring Implicit Cognition: Learning, Memory, and Social Cognitive Processes

Zheng Jin (Zhengzhou Normal University, China & University of California, Davis, USA)

Exploring Implicit Cognition: Learning, Memory, and Social Cognitive Processes explores research surrounding the ways in which an individual's unconscious is able to influence and impact that person's behavior without their awareness. Focusing on topics pertaining to social cognition and the unconscious process, this title is ideal for use by students, researchers, psychologists, and academicians interested in the latest insights into implicit cognition.

Human Rights and Ethics: Concepts, Methodologies, Tools, and Applications (4 Vols.)

Information Resources Management Association (USA)

Human Rights and Ethics: Concepts, Methodologies, Tools, and Applications considers some of the most important issues in the ethics of human interaction, whether in business, politics, or science and technology. Covering issues such as cybercrime, bioethics, medical care, and corporate leadership, this four-volume reference work will serve as a crucial resource for leaders, innovators, educators, and other personnel living and working in the modern world.

Evolving Issues Surrounding Technoethics and Society in the Digital Age

Rocci Luppicini (University of Ottawa, Canada)

Evolving Issues Surrounding Technoethics and Society in the Digital Age serves as an interdisciplinary base of scholarly contributions on the subject of technoethics, a field that deals with current and future problems that arise at the intersection of science, technological innovation, and human life and society. This premier reference work leverages ethical analysis, risk analysis, technology evaluation, and the combination of ethical and technological analyses in a variety of real life decision-making contexts, appealing to scholars and technology experts working in new areas of technology research where social and ethical issues emerge.

Technological Advancements and the Impact of Actor-Network Theory

Arthur Tatnall (Victoria University, Australia)

Technological Advancements and the Impact of Actor-Network Theory focuses on cross-disciplinary research as well as examples of the use of actor-network theory in a variety of fields, including medicine, education, business, engineering, environmental science, computer science, and social science. This timely publication is well-suited for reference use by academicians, researchers, upper-level students, and theorists.
Gender Considerations and Influence in the Digital Media and Gaming Industry
Julie Prescott (University of Bolton, UK) and Julie Elizabeth McGurren (Codemasters, UK)

Gender Considerations and Influence in the Digital Media and Gaming Industry provides a collection of high-quality empirical studies and personal experiences of women working in male-dominated fields with a particular focus on the media and gaming industries. Providing insight on best methods for attracting and retaining women in these fields, this volume is a valuable reference for executives and members of professional bodies who wish to encourage women in their career progression.

Human-Computer Interfaces and Interactivity: Emergent Research and Applications
Pedro Isaias (Universidade Aberta (Portuguese Open University), Portugal) and Katherine Blashki (Noroff University College, Norway)

Human-Computer Interfaces and Interactivity: Emergent Research and Applications aims to address the main issues of interest within the culture and design of interactive systems for individuals living with disabilities. This premier reference work addresses a range of approaches including, but not limited to, the conceptual, technological, and design issues related to human-computer interaction, issues of interest to a range of individuals including academics, university teachers, researchers, post-graduate students, public and private institutions, and HCI developers and researchers.

Political Campaigning in the Information Age
Ashu M. G. Solo (Maverick Technologies America Inc., USA)

Political Campaigning in the Information Age increases our understanding of aspects and methods for political campaigning, messaging, and communications in the information age. Each chapter analyzes political campaigning, its methods, the effectiveness of these methods, and tools for analyzing these methods. This book will aid political operatives in increasing the effectiveness of political campaigns and communications and will be of use to researchers, political campaign staff, politicians and their staff, political and public policy analysts, political scientists, engineers, computer scientists, journalists, academicians, students, and professionals.

Handbook of Research on Political Activism in the Information Age
Ashu M. G. Solo (Maverick Technologies America Inc., USA)

The Handbook of Research on Political Activism in the Information Age includes progressive research from more than 39 international experts at universities and research institutions across 15 different countries. Each of the 25 scholarly chapter contributions focuses on topics pertaining to the application of information technology, engineering, and mathematics to political activism. Through its analysis of the methods for political activism in the information age, the effectiveness of these methods, as well as emerging analytical tools, this book is designed for use by researchers, activists, political scientists, engineers, computer scientists, journalists, professors, students and professionals working in the fields of politics, e-government, media and communications, and Internet marketing.

Chaos and Complexity Theory in World Politics
Şefika Şüle Erçetin (Hacettepe University, Turkey) and Santo Banerjee (University Putra Malaysia, Malaysia)

Chaos and Complexity Theory in World Politics aims to bring attention to new developments in global politics within the last few years. Demonstrating various issues in international relations and the application of chaos theory within this field, this publication serves as an essential reference for researchers and professionals, as well as useful educational material for academicians and students.

Cyber Behavior: Concepts, Methodologies, Tools, and Applications (4 Vols.)

Cyber Behavior: Concepts, Methodologies, Tools, and Applications explores the role of cyber-space in modern communication and interaction, including considerations of ethics, crime, security, and education. With chapters on a variety of topics and concerns inherent to a contemporary networked society, this multi-volume work will be of particular interest to students and academicians, as well as software developers, computer scientists, and specialists in the field of Information Technologies.
Interdisciplinary Applications of Agent-Based Social Simulation and Modeling
Diana Francisca Adamatti (Universidade Federal do Rio Grande, Brasil), Graçaliz Pereira Dimuro (Universidade Federal do Rio Grande, Brasil), and Helder Coelho (Universidade de Lisboa, Portugal)

Interdisciplinary Applications of Agent-Based Social Simulation and Modeling aims to bring a different perspective to this interdisciplinary topic. This book presents current discussions and new insights on social simulation as a whole, focusing on its dangers, pitfalls, deceptions, and challenges. This book is an essential reference for researchers in this field, professionals using social simulation, and even students studying this discipline.

Imacts of the Knowledge Society on Economic and Social Growth in Africa
Lloyd G. Adu Amoah (Ashesi University, Ghana & Strategy3, Ghana)

Imacts of the Knowledge Society on Economic and Social Growth in Africa aims to catalyze thinking and provide relevant information on the complex ways in which the information age is shaping Africa and the implications that this will have for the continent and the world. This premier reference volume will provide policy analysts, policymakers, academics, and researchers with fresh insights into the key empirical and theoretical matters framing Africa's ongoing digitization.

Transforming Politics and Policy in the Digital Age
Jonathan Bishop (Centre for Research into Online Communities and E-Learning Systems, Belgium)

Transforming Politics and Policy in the Digital Age provides an updated assessment of the implications of technology for society and the realm of politics. The book covers issues presented by the technological changes on policy making and offers a wide array of perspectives. This publication will appeal to researchers, politicians, policy analysts, and academics working in e-government and politics.

Contemporary Social Issues in East Asian Societies: Examining the Spectrum of Public and Private Spheres
Mika Markus Merviö (Kibi International University, Okayama, Japan)

Contemporary Social Issues in East Asian Societies: Examining the Spectrum of Public and Private Spheres focuses on modern highly developed East Asian societies and their social issues, particularly ones that are related to family, institution, and health. By examining the modernized global society and its connectedness, this book is a vital resource for researchers, students, and academicians interested in the distinctive features connected with local, social and cultural traditions of East Asian society.

Gamification for Human Factors Integration: Social, Education, and Psychological Issues
Jonathan Bishop (Centre for Research into Online Communities and E-Learning Systems, Belgium)

Gamification for Human Factors Integration: Social, Education, and Psychological Issues presents information and best practices for promoting positive behavior online through gamification applications in social, educational, and psychological contexts. Through up-to-date research and practical applications, educators, academicians, information technology professionals, and psychologists will gain valuable insight into human-internet interaction and a possible solution for improving the relationship between society and technology.
Emerging Research and Trends in Interactivity and the Human-Computer Interface

Katherine Blashki (Noroff University, Norway) and Pedro Isaias (Universidade Aberta (Portuguese Open University), Portugal)

Emerging Research and Trends in Interactivity and the Human-Computer Interface addresses the main issues of interest within the culture and design of interaction between humans and computers. By exploring the emerging aspects of design, development, and implementation of interfaces, this book will be beneficial for academics, HCI developers, HCI enterprise managers, and researchers interested in the progressive relationship of humans and technology.

Globalization and Governance in the International Political Economy

Ümit Hacıoğlu (Beykent University, Turkey) and Hasan Dinçer (Beykent University, Turkey)

Globalization and Governance in the International Political Economy investigates the impact of diverse cultures on the development and actualization of global economic entities, exploring advanced methods and best practices for the effective utilization and management of financial organizations within a globalized political context. This essential reference provides readers in both political and economic fields with insights into the challenges and opportunities posed by the political economy.

Gender Divide and the Computer Game Industry

Julie Prescott (University of Bolton, UK) and Jan Bogg (University of Liverpool, UK)

Gender Divide and the Computer Game Industry takes a look at the games industry from a gendered perspective and highlights the variety of ways in which women remain underrepresented in this industry. This reference source provides a comprehensive overview on the issue of gender, computer games, and the ICT sector. It supplies students and academics in numerous disciplines with the concerns of the computer games industry, male dominated occupations, and the complexity of gender in the workforce.

Ubervellance and the Social Implications of Microchip Implants: Emerging Technologies

M.G. Michael (University of Wollongong, Australia) and Katina Michael (University of Wollongong, Australia)

Ubervellance and the Social Implications of Microchip Implants: Emerging Technologies presents case studies, literature reviews, ethnographies, and frameworks supporting the emerging technologies of RFID implants while also highlighting the current and predicted social implications of human-centric technologies. This book is essential for professionals and researchers engaged in the development of these technologies as well as providing insight and support to the inquiries with embedded micro technologies.

Socio-Cybernetic Study of God and the World-System

Masudul Alam Choudhury (Sultan Qaboos University, Oman)

Socio-Cybernetic Study of God and the World-System investigates morality in a socio-scientific worldview, examining the epistemology of existence in conjunction with Islamic monotheistic law to generate a world-system that governs action and reaction in the context of a variety of cognitive and social environments. Readers with backgrounds in finance and economics can utilize this book to construct a more thorough theoretical understanding of their societal and professional associations.

Technology versus Ecology: Human Superiority and the Ongoing Conflict with Nature

Robert A. Schultz (Woodbury University, USA)

Technology versus Ecology: Human Superiority and the Ongoing Conflict with Nature explores the issues revolving around the conflict between technology versus human beings, the concern for the separation of human beings in the ecosystem, and the negative consequences that may follow as ecosystems are being damaged. This book is a significant reference source for researchers, instructors, and students interested in the constant evolution of technology and ecology.
Assistive Technologies: Concepts, Methodologies, Tools, and Applications (3 Vols.)

Information Resources Management Association (USA)

Assistive Technologies: Concepts, Methodologies, Tools, and Applications presents a comprehensive collection of research, developments, and knowledge on technologies that enable disabled individuals to function effectively and accomplish otherwise impossible tasks. These volumes will serve as a crucial reference source to experts in fields as diverse as healthcare, information science, education, engineering, and human-computer interaction, with applications bridging multiple disciplines.

Advanced Research and Trends in New Technologies, Software, Human-Computer Interaction, and Communicability

Francisco V. Cipolla-Ficarra (Alaipo, Italy)

Advanced Research and Trends in New Technologies, Software, Human-Computer Interaction, and Communicability presents scientific, theoretical, and practical insight on the software and technology of social networks and the factors that boost communicability. By highlighting different disciplines in the computer and social sciences, this reference is essential for practitioners, researchers, and scholars invested in the current studies, as well as for future generations in the field of ICT.

New Media Influence on Social and Political Change in Africa

Anthony A. Olorunnisola (Pennsylvania State University, USA) and Aziz Douai (University of Ontario Institute of Technology, Canada)

New Media Influence on Social and Political Change in Africa addresses the development of new mass media and communication tools and its influence on social and political change. While analyzing democratic transitions and cultures with a theoretical perspective, this book also presents case studies and national experiences for media, new media, and democracy scholars and practitioners.

Studies in Virtual Communities, Blogs, and Modern Social Networking: Measurements, Analysis, and Investigations

Subhasish Dasgupta (George Washington University, USA)

Studies in Virtual Communities, Blogs, and Modern Social Networking: Measurements, Analysis, and Investigations provides a cross-cultural perspective of social networking, including ethical considerations and business implications. Readers will find a detailed treatment of technical, social, and legal issues inherent in online virtual communities, exploring methods of effectively implementing the latest social tools in their everyday practices, both professional and personal, in the interest of improved security and sustainability in digital collaborative environments.

Cases on Usability Engineering: Design and Development of Digital Products

Miguel A. Garcia-Ruiz (Algoma University, Canada)

Cases on Usability Engineering: Design and Development of Digital Products provides readers with case studies and real-life examples on usability methods and techniques to test the design and development of digital products, such as web pages, video games, and mobile computer applications. Students, lecturers, and academics concentrating in computer science can use these cases to investigate how and why usability can improve the design of digital technology, offering diverse technological solutions that many academics have largely failed to disseminate. This book is part of the Advances in Human and Social Aspects of Technology series collection.

ICTs for Health, Education, and Socioeconomic Policies: Regional Cases

Ahmed Driouchi (Al Akhawayn University, Morocco)

ICTs for Health, Education, and Socioeconomic Policies: Regional Cases discusses the benefits that can be gained from the interactions between health, education, and socioeconomic areas. Providing a regional focus on the Southern Mediterranean, Middle Eastern, and Arab economies, this book is essential for researchers, scholars, developers, policy makers, and graduate students interested in these specific regions and studies.
Information Systems and Modern Society: Social Change and Global Development
John Wang (Montclair University, USA)

Information Systems and Modern Society: Social Change and Global Development is a comprehensive collection of research on the emergence of information technology and its effect on society. By providing a forum for practitioners and researchers, this book aims to bring to light the advancements made throughout social changes and the application of information systems. This research provides recent techniques useful for policy makers, practitioners and students.

Moral, Ethical, and Social Dilemmas in the Age of Technology: Theories and Practice
Rocci Luppicini (University of Ottawa, Canada)

Moral, Ethical, and Social Dilemmas in the Age of Technology: Theories and Practice highlights the innovations and developments in the ethical features of technology in society. This comprehensive collection brings together research in the areas of computer, engineering, and biotechnical ethics. These theoretical studies and innovative methodologies are essential for researchers, practitioners and philosophers.

Social Media Mining and Social Network Analysis: Emerging Research
Guandong Xu (Victoria University, Australia) and Lin Li (Wuhan University of Technology, China)

Social Media Mining and Social Network Analysis: Emerging Research highlights the advancements made in social network analysis and social web mining and its influence in the fields of computer science, information systems, sociology, organization science discipline and much more. This collection of perspectives on developmental practice is useful for industrial practitioners as well as researchers and scholars.

Dynamic Leadership Models for Global Business: Enhancing Digitally Connected Environments
Peter A.C. Smith (The Leadership Alliance Inc., Canada) and Tom Cockburn (The Leadership Alliance Inc., New Zealand)

Dynamic Leadership Models for Global Business: Enhancing Digitally Connected Environments describes various models on how to become an outstanding leader in today’s rapidly growing global business environments. This book seeks to provide positive instruction which illuminates a practical path to becoming a successful leader in such large and competitive markets. The approach is consistent with any existing leadership development program, or it may be undertaken as an individual initiative.

Examining the Concepts, Issues, and Implications of Internet Trolling
Jonathan Bishop (Centre for Research into Online Communities and E-Learning Systems, UK)

Examining the Concepts, Issues, and Implications of Internet Trolling provides current research on the technical approaches as well as more social and behavioral involvements for gaining a better understanding of internet trolling. This book is useful to researchers, students and practitioners interested in building a shared meaning for online community users.

Global Applications of Pervasive and Ubiquitous Computing
Tao Gao (Electronic Information Products Supervision and Inspection Institute of Hebei Province, China)

Global Applications of Pervasive and Ubiquitous Computing provides the global applications and efforts in building and applying pervasive and ubiquitous computer technology. This book provides an essential collection of research of information technology for educators, researchers and practitioners aiming to advance the practice and understanding of pervasive and ubiquitous applications.
Technology Integration and Foundations for Effective Leadership
Shuyan Wang (The University of Southern Mississippi, USA) and Taralynn Hartsell (The University of Southern Mississippi, USA)

Technology Integration and Foundations for Effective Leadership provides detailed information on the aspects of effective technology leadership by highlighting the instruction on creating a technology plan and the successful integration of technology into the educational environment. This reference source aims to offer a sense of structure and basic information on designing, developing, and evaluation technology projects to ensure maximum success.

Online Credibility and Digital Ethos: Evaluating Computer-Mediated Communication
Moe Folk (Kutztown University of Pennsylvania, USA) and Shawn Apostel (Eastern Kentucky University, USA)

Online Credibility and Digital Ethos: Evaluating Computer-Mediated Communication highlights important approaches to evaluating the credibility of digital sources and techniques used for various digital fields. This book brings together research in the areas of computer mediated communication and how it currently affects digital culture and online credibility.

Social E-Enterprise: Value Creation through ICT
Teresa Torres-Coronas (Universitat Rovira i Virgili, Spain) and María Arántzazu Vidal-Blasco (Universitat Rovira i Virgili, Spain)

Social E-Enterprise: Value Creation through ICT provides research on the understanding of ICT in the social enterprise field as it emerges as a major component of both business model and developed economy. This reference source focuses on the role of information communication technology as it promotes the development of the social sector.

Technology as a Tool for Diversity Leadership: Implementation and Future Implications
Joél Lewis (University of South Alabama, USA), André M. Green (University of South Alabama, USA), and Daniel W. Surry (University of South Alabama, USA)

Technology as a Tool for Diversity Leadership: Implementation and Future Implications focuses on the technological connections between diversity leadership and the focus on inclusivity, evolvement, and communication to meet the needs of multicultural environments. This book highlights societal implications in real-world problems and performance improvement in organizations.

Cases on Web 2.0 in Developing Countries: Studies on Implementation, Application, and Use
Nahed Amin Azab (The American University in Cairo, Egypt)

Cases on Web 2.0 in Developing Countries: Studies on Implementation, Application, and Use investigates the perception of the value of Web 2.0, the adoption and application of its technologies, as well as the different approaches and innovations necessary for the implementation of Web applications in developing countries.

Knowledge and Technological Development Effects on Organizational and Social Structures
Jose Abdelnour-Nocera (University of Westminster, UK)

Knowledge and Technological Development Effects on Organizational and Social Structures provides a wide ranging discussion on the exchanging of research ideas and practices in an effort to bring together the social and technical aspects within organizations and society. This collection focuses on new ideas and studies for research, students, and practitioners.
Social Software and the Evolution of User Expertise: Future Trends in Knowledge Creation and Dissemination

Tatjana Taksheva (Saint Mary’s University, Canada)

Social Software and the Evolution of User Expertise: Future Trends in Knowledge Creation and Dissemination examines the vital role that social software applications play in regards to the cultural definitions of experts and challenges the reader to consider how recent changes in this area influence how we create and distribute knowledge. This collection brings together scholars and practitioners from various disciplines and professions to project a new kind of thinking about the understanding of the major changes in many professions.

Handbook of Research on Technoself: Identity in a Technological Society (2 Vols.)

Rocci Luppicini (University of Ottawa, Canada)

The Handbook of Research on Technoself: Identity in a Technological Society provides insights to better enhance the understanding of technology’s widespread intertwining with human identity within an advancing technological society. This reference includes comprehensive coverage of the most vital issues, concepts, trends, and debates in technology and identity. It brings together an audience of researchers, scholars, students, and professionals alike.

Innovative Strategies and Approaches for End-User Computing Advancements

Ashish Dwivedi (The University of Hull, UK) and Steve Clarke (The University of Hull Business School, UK)

Innovative Strategies and Approaches for End-User Computing Advancements presents comprehensive research on the implementation of organizational and end user computing initiatives to further understand this discipline and its related fields. This book aims to bring together information technology educators, researchers, and practitioners who strive to advance the practice and understanding of organizational and end-user computing.

Developments in Technologies for Human-Centric Mobile Computing and Applications

Joanna Lumsden (Aston University, UK)

Developments in Technologies for Human-Centric Mobile Computing and Applications is a comprehensive collection of knowledge and practice in the development of technologies in human–centric mobile technology. This book focuses on the developmental aspects of mobile technology; bringing together researchers, educators, and practitioners to encourage readers to think outside of the box.

Gendered Occupational Differences in Science, Engineering, and Technology Careers

Julie Prescott (University of Central Lancashire, UK) and Jan Bogg (University of Liverpool, UK)

Gendered Occupational Differences in Science, Engineering, and Technology Careers provides an overview of women in male dominated fields, specifically in science, engineering, and technology, and examines the contributing factors in this concern. This collection of research is relevant to academics and students in social and behavioral sciences in addition to gender and organizational researchers and scholars.
Integrations of Technology Utilization and Social Dynamics in Organizations

Dawn Medlin (Appalachian State University, USA)

Integrations of Technology Utilization and Social Dynamics in Organizations covers all aspects of social issues impacted by information technology in organizations and inter-organizational structures; this book presents the conceptualization of specific social issues and their associated constructs. It encompasses designs and infrastructures, empirical validation of social models, and case studies illustrating socialization success and failures relating to Information technology.

User Perception and Influencing Factors of Technology in Everyday Life

Anabela Mesquita (ISCAP/IPP, Portugal)

User Perception and Influencing Factors of Technology in Everyday Life addresses issues of human and technology interaction. The research in this work is interdisciplinary, ranging from more technical subjects such as computer science, engineering, and information systems, to non-technical descriptions of technology and human interaction from the point of view of sociology or philosophy. This book is perfect for academics, researchers, and professionals alike as it presents a set of theories that allow us to understand the interaction of technology and humans and to put it to practical use.

ICT Influences on Human Development, Interaction, and Collaboration

Susheel Chhabra (Lal Bahadur Shastri Institute of Management, India)

ICT Influences on Human Development, Interaction, and Collaboration creates awareness on how ICTs contribute to human development in multiple areas. This publication describes the link between ICTs and human development, which includes economic, social, and political development. It identifies potential applications for the development of human beings and provides insightful analysis about those factors (also contextual and institutional ones) that affect ICTs for human development initiatives. This book addresses future challenges, proposing strategies to both governments and international cooperation organizations for moving forward.

Interdisciplinary Applications of Electronic Collaboration Approaches and Technologies

Ned Kock (Texas A&M International University, USA)

Interdisciplinary Applications of Electronic Collaboration Approaches and Technologies addresses the design and implementation of e-collaboration technologies, assesses its behavioral impact on individuals and groups, and presents theoretical considerations on links between the use of e-collaboration technologies and behavioral patterns. An innovative collection of the latest research findings, this book covers significant topics such as Web-based asynchronous conferencing tools, e-mail, listservs and many others, perfect for academics, researchers, and professionals alike.

Engaging Older Adults with Modern Technology: Internet Use and Information Access Needs

Robert Z. Zheng (University of Utah, USA), et al.

Engaging Older Adults with Modern Technology: Internet Use and Information Access Needs takes a structured approach to the research in aging and digital technology in which older adults’ use of internet and other forms of digital technologies is studied through the lenses of cognitive functioning, motivation, and affordances of new technology. This book identifies the role and function of internet and other forms of digital technology in older adult learning. It also bridges the theories with practices in older adults’ internet/digital technology use by focusing on effective design and development of internet and other digital technologies for older adults’ learning. This title is targeted towards educators globally with an emphasis on diverse aspects in older adult and internet learning that include learner characteristics, cognition, design principles and applications.

Digital Identity and Social Media

Steven Warburton (Kings College London, UK) and Stylianos Hatzipanagos (Kings College London, UK)

Digital Identity and Social Media will examine the impact of social media and distributed social spaces on our contemporary understandings of digital identity. This book will benefit researchers, practitioners, the wider educational community across all sectors, educational technologists, and individuals who are interested in how social media and emerging technologies will impact formal education and the social implications that surround the reformulation and fluidity of virtual communities. In addition, professionals and researchers working in the field of information and communication technologies and knowledge management in various disciplines will find this title to be an invaluable resource.

For Free Trial Access, Please Contact an IGI Global Representative at 717-533-8845 x100 or eresources@igi-global.com
Digital Literacy, Methodologies, Tools, and Applications (3 Vols.)

Information Resources Management Association (USA)

Digital Literacy: Concepts, Methodologies, Tools and Applications presents a vital compendium of research detailing the latest case studies, architectures, frameworks, methodologies, and research on Digital Literacy. With contributions from authors around the world, this three-volume collection presents the most sophisticated research and developments from the field, relevant to researchers, academics, and practitioners alike. In order to stay abreast of the latest research, this book affords a vital look into Digital Literacy research.

Virtual Worlds and Metaverse Platforms: New Communication and Identity Paradigms

Nelson Zagalo (University of Minho, Portugal) and Leonel Morgado (University of Trás-os-Montes e Alto Douro, and Portugal), Ana Boa-Ventura (The University of Texas at Austin, USA)

Virtual Worlds and Metaverse Platforms: New Communication and Identity Paradigms presents foundational research, models, case studies and research results that researchers and scholars can port to their own environments to evolve their own research processes and studies. The chapters cover scenarios of intellectual disciplines and technological endeavors in which metaverse platforms are currently being used and will be used, including: computation, human-computer interaction, design, media and communication, anthropology, sociology, psychology, education, philosophy, theology, arts, and aesthetics.

Evolving Psychological and Educational Perspectives on Cyber Behavior

Robert Zheng (The University of Utah, USA)

Evolving Psychological and Educational Perspectives on Cyber Behavior identifies learners’ online behavior based on the theories in human psychology, defines online education phenomena as explained by the social and cognitive learning theories and principles, and interprets the complexity of cyber learning. This title offers a multi-disciplinary approach that incorporates the findings from brain research, biology, psychology, human cognition, developmental theory, sociology, motivation theory, and social behavior perfect for school teachers, counselors, researchers, and online designers.

Approaches for Community Decision Making and Collective Reasoning: Knowledge Technology Support

John Yearwood (University of Ballarat, Australia) and Andrew Stranieri (University of Ballarat, Australia)

Approaches for Community Decision Making and Collective Reasoning: Knowledge Technology Support acts to provide knowledge for each individual in a group with the broad structural wealth of reasoning. It also acts as an explicit structure that technological devices for supporting reasoning within a group can hook onto. If you are interested in how groups can structure their activities towards making better decisions or in developing technologies for the support of decision-making in groups, then this book is an excellent way to understand the state of the art and possible ways forward.

Handbook of Research on Workforce Diversity in a Global Society: Technologies and Concepts

Chaunda L. Scott (Oakland University, USA) and Marilyn Y. Byrd (The University of Mary Hardin Baylor, USA)

The Handbook of Research on Workforce Diversity in a Global Society: Technologies and Concepts serves as a cutting-edge resource for scholars, researchers, organizational leaders, practitioners, and graduate students who want to enhance their understanding of leverage diversity in the workforce. Secondly, the handbook highlights innovative research, theoretical frameworks, and perspectives that are currently being used to guide the practice of leveraging diversity in multiple organizational settings. It also provides insights on future workforce diversity trends.
Trends and Effects of Technology Advancement in the Knowledge Society

Miltiadas Lytras (The American College of Greece, Greece) and Isabel Novo Corti (University of A Coruña, Spain)

Trends and Effects of Technology Advancement in the Knowledge Society brings together academicians, industry professionals, policymakers, politicians, and government officers to look at the impact of information technology, and the knowledge-based era it is creating, on key facets of today’s world: the state, business, society, and culture. This title anchors government policies and examines the characteristics of the emerging knowledge intensive economy and social environment and investigates the “soft” and “hard” aspects of the knowledge society, providing organizational and cultural frameworks, as well as infrastructures enabled by the evolution of information technologies.

Social Influences on Information and Communication Technology Innovations

Arthur Tatnall (Victoria University, Australia)

Social Influences on Information and Communication Technology Innovations discusses in great detail the use of actor-network theory in offering explanations for socio-technical phenomena, focusing greatly on information communication technologies. Implementation and use of information and communication technologies inevitably involves the interactions of both technology and people. This publication facilitates international growth in the body of research investigating the value of using actor-network theory as a means of understanding socio-technical phenomena and technological innovation.

Technical, Social, and Legal Issues in Virtual Communities: Emerging Environments

Subhasish Dasgupta (George Washington University, USA)

Technical, Social, and Legal Issues in Virtual Communities: Emerging Environments examines a variety of issues related to virtual communities and social networking, addressing issues related to team identification, leader-member issues, social networking for education, participation in social networks, and other issues directly related to this eclectic field of study. This publication provides comprehensive coverage and understanding of the social, cultural, organizational, human, and cognitive issues related to the virtual communities and social networking. Readers will find that this book encompasses an overall body of knowledge regarding participation of individuals, groups and organizations in virtual communities and networks, by providing an outlet for scholarly research in the area.

Virtual Professional Development and Informal Learning via Social Networks

Vanessa P. Dennen (Florida State University, USA) and Jennifer B. Myers (Florida State University, USA)

Virtual Professional Development and Informal Learning via Social Networks will examine how individuals and organizations are using Web 2.0 tools to create informal learning and professional development opportunities. Informal learning is learning which occurs outside of a formal educational context, typically driven by a personal question or an immediate need. In other instances, informal learning may occur as a by-product of other social interactions. In this context, we focus on informal learning that occurs through online social networks on a voluntary basis. Professional development, then, is defined as learning that will enhance one’s job-related knowledge or career growth. This book is perfectly suited for academics and practitioners as it is written in a manner that is clearly accessible and includes implications for practice.

Human Resources Management: Concepts, Methodologies, Tools, and Applications (3 Vols.)

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Information Resources Management Association (USA)

Human Resources Management: Concepts, Methodologies, Tools, and Applications compiles the most sought after case studies, architectures, frameworks, methodologies, and research related human resources management. Including over 100 chapters from professional, this three-volume collection presents an in-depth analysis on the fundamental aspects, tools and technologies, methods and design, applications, managerial impact, social/behavioral perspectives, critical issues, and emerging trends in the field, touching on effective and ineffective management practices when it comes to human resources. This multi-volume work is vital and highly accessible across the hybrid domain of business and management, essential for any library collection.
Collaboration and the Semantic Web: Social Networks, Knowledge Networks, and Knowledge Resources

Stefan Brüggemann (Astrium Space Transportation, Germany) and Claudia d'Amato (University of Bari, Italy)

Collaboration and the Semantic Web: Social Networks, Knowledge Networks and Knowledge Resources showcases cutting-edge research on the intersections of Semantic Web, collaborative work, and social media research, exploring how the resources of so-called social networking applications, which bring people together to interact and encourage sharing of personal information and ideas, can be tapped by Semantic Web techniques, making shared Web contents readable and processable for machine and intelligent applications as well as humans. Semantic technologies have shown their potential for integrating valuable knowledge, and they are being applied to the composition of digital learning and working platforms.

E-Politics and Organizational Implications of the Internet: Power, Influence, and Social Change

Celia Romm Livermore (Wayne State University, USA)

E-Politics and Organizational Implications of the Internet: Power, Influence, and Social Change charts this influence and describes the unique effect electronic communication has on organizations, communities, nations, and cultures. This book presents the most current research on both the history of these powerful new tools and their preliminary impact both in across the world and in daily life. A thorough understanding of these technologies is necessary to properly navigate this new millennium and this reference is the beginning of that knowledge.

Societal Impacts on Information Systems Development and Applications

John Wang (Montclair State University, USA)

Societal Impacts on Information Systems Development and Applications has collected research from experts from around the world in a variety of sectors, in the form of case studies, frameworks, architectures, methodologies, and best practices to show the latest societal impacts on information systems development in its various applications. This compendium will serve as a vital resource to practitioners and academics alike, taking into consideration what effects society has on the development and dissemination of information technologies.
Collaborative and Distributed E-Research: Innovations in Technologies, Strategies, and Applications

Angel A. Juan (Open University of Catalonia (UOC), Spain), et al.

Collaborative and Distributed E-Research: Innovations in Technologies, Strategies and Applications offers insight into practical and methodological issues related to collaborative e-research and furthers our understanding of current and future trends in online research and the types of technologies involved. This book provides a useful foundation for academics and professionals involved in Collaborative and Distributed E-Research, collaborative software development, and computer-supported collaborative work.

End-User Computing, Development, and Software Engineering: New Challenges

Ashish Dwivedi (The University of Hull, UK) and Steve Clarke (University of Hull Business School, UK)

End-User Computing, Development, and Software Engineering: New Challenges explores the implementation of organizational and end user computing initiatives and provides foundational research to further the understanding of this discipline and its related fields. This book reviews the factors and barriers to ICT adoption in organizations, opportunities and benefits of communities of practice, and impact that end user computing can have on overall firm performance.

Human-Information Interaction and Technical Communication: Concepts and Frameworks

Michael J. Albers (East Carolina University, USA)

Human-Information Interaction and Technical Communication: Concepts and Frameworks focuses on communicating information, not creating information. Developing information which clearly communicates and fits people's needs requires understanding how people think and what drives their decision processes. To help achieve that goal, this book works to provide practical knowledge based on a sound theoretical foundation for allowing people to engage in a meaningful dialogue as they make decisions with respect to designing that communication. Besides being a reference for the academic researcher or practicing technical communicator, it is written so it can be used as a reference for either a foundational or theories of technical communication course.

Social and Organizational Impacts of Emerging Mobile Devices: Evaluating Use

Joanna Lumsden (Aston University, UK)

Social and Organizational Impacts of Emerging Mobile Devices: Evaluating Use focuses on human-computer interaction related to the innovation and research in the design, evaluation, and use of innovative handheld, mobile, and wearable technologies in order to broaden the overall body of knowledge regarding such issues. It aims to provide an international forum for researchers, educators, and practitioners to advance knowledge and practice in all facets of design and evaluation of human interaction with mobile technologies.

Technological Change and Societal Growth: Analyzing the Future

Elayne Coakes (University of Westminster, UK)

Technological Change and Societal Growth: Analyzing the Future focuses on new ideas and approaches, including studies of the practical implementation of practitioners, academics, researchers, and students. The aim of the book is to bring together the expertise of people who have worked practically in a changing society across the world for people in the field of organizational development and technology studies including information systems development and implementation.

Online Guidance and Counseling: Toward Effectively Applying Technology

B.J. Popoola (Obafemi Awolowo University, Nigeria) and O.F. Adewale (Obafemi Awolowo University, Nigeria)

Online Guidance and Counseling: Toward Effectively Applying Technology offers a collection of case studies and research from around the globe, comparing and contrasting instructional design and guidance methods from developed and developing countries alike. International education and distance learning are burgeoning fields, and new technologies must be adapted to these in order to keep up with growing interest and needs. This book is an important selection for practitioners, instructional designers, and students alike interested in staying current with the applications of technology to guidance in online learning.
Globalization, Technology Diffusion and Gender Disparity: Social Impacts of ICTs
Rekha Pande (University of Hyderabad, India) and Theo P. van der Weide (Radboud University Nijmegen, The Netherlands)

Globalization, Technology Diffusion and Gender Disparity: Social Impacts of ICTs discusses theoretical aspects of gender issues in ICT and presents a number of case studies from various countries. Covering topics such as social networking, ICT use among women, the digital divide, and theoretical approaches to gender gaps and ICT, this book aims to provide a strong foundation on ICT and digital equity that will be useful to a broad audience comprised of students, researchers, and policymakers.

ICTs for Advancing Rural Communities and Human Development: Addressing the Digital Divide
Susheel Chhabra (Lal Bahadur Shastri Institute of Management, India)

ICTs for Advancing Rural Communities and Human Development: Addressing the Digital Divide reviews the important impact ICTs have on economic, social, and political development and provides analyses of ICTs for education, commerce, and governance. This reference develops strategies and promotes awareness of human development initiatives as they relate to technology development and design.

Advancing Collaborative Knowledge Environments: New Trends in E-Collaboration
Ned Kock (Texas A&M International University, USA)

Advancing Collaborative Knowledge Environments: New Trends in E-Collaboration discusses the latest findings in knowledge-intensive, collaborative environments, focusing on frameworks and solutions for improving collaboration online. Uniting research on the effectiveness of instant messaging, the role of presence and awareness in real-time collaboration, and other key concepts, this reference is useful for those interested in frameworks for new collaboration technologies, as well as existing users of new technologies and applications.

Human Interaction with Technology for Working, Communicating, and Learning: Advancements
Anabela Mesquita (ISCAP/IPP, Portugal)

Human Interaction with Technology for Working, Communicating, and Learning: Advancements provides a framework for conceptual, theoretical, and applied research in regards to the relationship between technology and humans. This book is unique in the sense that it does not only cover technology, but also science, research, and the relationship between these fields and individuals’ experience. This book is a must have for anyone interested in this research area, as it provides a voice for all users and a look into our future.

Intercultural Rhetoric and Professional Communication: Technological Advances and Organizational Behavior
Barry Thatcher (New Mexico State University, USA)

Intercultural Rhetoric and Professional Communication: Technological Advances and Organizational Behavior explores the theory and practice of rhetoric and professional communication in intercultural contexts. This book provides a framework for translating, localizing, and internationalizing communications and information products around the world. Taking a theoretically integrated approach, this book provides the analytical tools and methods for examining the relations between culture and rhetoric and understanding the deep cultural foundation of rhetorical patterns.

Social Network Mining, Analysis and Research Trends: Techniques and Applications
I-Hsien Ting (National University of Kaohsiung, Taiwan), Tzung-Pei Hong (National University of Kaohsiung, Taiwan), and Leon S.L. Wang (National University of Kaohsiung, Taiwan)

Social Network Mining, Analysis and Research Trends: Techniques and Applications covers current research trends in the area of social networks analysis and mining. Containing research from experts in the social network analysis and mining communities, as well as practitioners from social science, business, and computer science, this book proposes new measures, methods, and techniques in social networks analysis and also presents applications and case studies in this changing field.
Networked Sociability and Individualism: Technology for Personal and Professional Relationships
Francesca Comunello (Sapienza Università di Roma, Italy)

Networked Sociability and Individualism: Technology for Personal and Professional Relationships provides a multidisciplinary framework for analyzing the new forms of sociability enabled by digital media and networks. This book focuses on a variety of social media and computer-mediated communication environments with the aim of identifying and understanding different types of social behavior and identity expression.

Social Networking and Community Behavior Modeling: Qualitative and Quantitative Measures
Maytham Safar (Kuwait University, Kuwait) and Khaled A. Mahdi (Kuwait University, Kuwait)

Social Networking and Community Behavior Modeling: Qualitative and Quantitative Measures provides a clear and consolidated view of current social network models. This work explores new methods for modeling, characterizing, and constructing social networks. Chapters contained in this book study critical security issues confronting social networking, the emergence of new mobile social networking devices and applications, network robustness, and how social networks impact the business aspects of organizations.

User Interface Design for Virtual Environments: Challenges and Advances
Badrul H. Khan (McWeadon Education, USA)

User Interface Design for Virtual Environments: Challenges and Advances focuses on challenges that designers face in creating interfaces for users of various virtual environments. Chapters included in this book address various critical issues that have implications for user interface design from a number of different viewpoints. This book is written for professionals who want to improve their understanding of challenges associated with user interface design issues for globally-dispersed users in various virtual environments.

Handbook of Research on Business Social Networking: Organizational, Managerial, and Technological Dimensions (2 Vols.)
Maria Manuela Cruz-Cunha (Polytechnic Institute of Cávado and Ave, Portugal), et al.

Handbook of Research on Business Social Networking: Organizational, Managerial, and Technological Dimensions investigates the beginning of social networks and provides perspectives on how they can enhance business. This two-volume reference discusses the main issues, challenges, opportunities, and trends related to the range of new developments and applications in business social networking. Social networks and their integration in businesses are addressed using technological, organizational, managerial, and social perspectives with the aim of disseminating current developments, case studies, new integrated approaches, and practical solutions and applications.

Blogging in the Global Society: Cultural, Political and Geographical Aspects
Tatyana Dumova (Point Park University, USA) and Richard Fiordo (University of North Dakota, USA)

Blogging in the Global Society: Cultural, Political and Geographical Aspects provides a comprehensive view of blogging as a global practice. Bloggers have created a new virtual world—a blogosphere—populated with opinion leaders and information purveyors, political pundits and activists, human and animal rights defenders and abusers, corruption fighters and truth seekers, as well as professionals, marketers, advertisers, journalists, celebrities, artists, academics, and bored consumers of all sorts. This book provides a cross-disciplinary analysis of the social, cultural, and political factors affecting blogging practices, tracing the diffusion of blogging as a global communication innovation, uncovering particularities and patterns of adoption in different cultures and geographical regions, and shedding light on trends in the global blogosphere.

Human Resource Management in the Digital Economy: Creating Synergy between Competency Models and Information
Susana de Juana-Espinosa (Universidad de Alicante, Spain), Jose Antonio Fernandez-Sanchez (Universidad de Alicante, Spain), Encarnacion Manresa-Marhuenda (Universidad de Alicante, Spain), and Jorge Valdes-Conca (Universidad de Alicante, Spain)

Human Resource Management in the Digital Economy: Creating Synergy between Competency Models and Information is a reference for both practitioners and academics that demonstrates how to implement e-management and competency models in companies. This book offers perspectives on the impact of integrated e-human resource policies and provides recommendations for addressing the shift from traditional human resource policies to new perspectives.
Social Development and High Technology Industries: Strategies and Applications
Ahmet Cakir (Ergonomic Institute, Germany) and Patricia Ordóñez de Pablos (University of Oviedo, Spain)

Social Development and High Technology Industries: Strategies and Applications highlights the relationships between contemporary high technology and social development, the development and application of high technology, high technology competition, and economic development as it pertains to high technology. This book addresses society’s growing need to adopt emerging technologies for all aspects of business and economic activity and develop innovative solutions to research problems, which will result in the creation of high performance systems.

Virtual Community Building and the Information Society: Current and Future Directions
Christo El Morr (York University, Canada) and Pierre Maret (Université St. Etienne, France)

Virtual Community Building and the Information Society: Current and Future Directions offers a holistic approach to virtual communities, providing relevant theoretical frameworks and presenting the latest empirical research on virtual technology, infrastructures, content modeling, knowledge modeling, content management, context awareness, mobility, security and trust. It also explores the social impact and applications of virtual communities, providing valuable insights for professionals, researchers, and managers in fields including information systems, computer science, knowledge management, software engineering, healthcare, business, information and communication sciences, education, and sociology who want to improve their understanding of the strategic role of virtual communities in the information society.

Computer-Mediated Communication across Cultures: International Interactions in Online Environments
Kirk St.Amant (East Carolina University, USA) and Sigrid Kelsey (Louisiana State University, USA)

Computer-Mediated Communication across Cultures: International Interactions in Online Environments provides readers with the foundational knowledge needed to communicate safely and effectively with individuals from other countries and cultures via online media. Through a closer examination of the expanded global access to the Web, this book discusses the use and design of cross-cultural digital media and the future of the field for executives, marketeers, researchers, educators, and the average user.

Gender and Social Computing: Interactions, Differences and Relationships
Celia Romm Livermore (Wayne State University, USA)

Gender and Social Computing: Interactions, Differences and Relationships provides an overview of the major questions that researchers and practitioners are addressing, outlining possible future directions for theory development and empirical research on gender and computing. This comprehensive reference focuses on three areas of research on gender and computing: gender and computing in the work arena, gender and computing in cyberspace, and gender in eDating.

Handbook of Research on Practices and Outcomes in Virtual Worlds and Environments (2 Vols.)
Harrison Hao Yang (State University of New York, USA) and Steve C. Yuen (University of Southern Mississippi, USA)

Handbook of Research on Practices and Outcomes in Virtual Worlds and Environments not only presents experienced professionals with the most recent and advanced developments in the field, but it also provides clear and comprehensive information for novice readers. The handbook introduces theoretical aspects of virtual worlds, disseminates cutting-edge research, and presents first-hand practices in virtual world development and use. The balance of research, theory, and applications includes exploration of design innovations, new virtual reality technologies, virtual communities, pedagogical design, and the future of virtual worlds and environments.

Libraries, Telecentres, Cybercafes and Public Access to ICT: International Comparisons
Ricardo Gomez (University of Washington, USA)

Libraries, Telecentres, Cybercafes and Public Access to ICT: International Comparisons presents groundbreaking research the new challenges and opportunities faced by public libraries, community telecentres, and cybercafes that offer public access to computers and other information and communication technologies. Written in plain language, the book presents an in-depth analysis of the spaces that serve underserved populations, bridge “digital divides,” and further social and economic development objectives, including employability. With examples and experiences from around the world, this book sheds light on a surprising and understudied facet of the digital revolution at a time when effective digital inclusion strategies are needed more than ever.
Relief Supply Chain Management for Disasters: Humanitarian Aid and Emergency Logistics

Gyöngyi Kovács (Hanken School of Economics, Finland) and Karen M. Spens (Hanken School of Economics, Finland)

Relief Supply Chain for Disasters: Humanitarian, Aid and Emergency Logistics furthers the scholarly understanding of SCM in disaster relief. Recent natural and manmade disasters have brought relief SCM to the forefront of the global response to tragedy, establishing the central role of logistics in averting and limiting unnecessary hardships. The lessons learned during these crises have far-reaching applications for both daily logistics and worst case scenarios and they are represented in this book as a much-needed reference for the advancement of the field.

Information and Communication Technologies, Society and Human Beings: Theory and Framework

Darek M. Haftor (Vaxjo University, Sweden) and Anita Mirjamdotter (Vaxjo University, Sweden)

Information and Communication Technologies, Society and Human Beings: Theory and Framework addresses the extensive area of effects of ICT on human beings and the interaction between ICT, individuals, organizations, and society. This premier reference source features contributions from over 45 distinguished researchers from around the world, each presenting high quality research on Social Informatics, Human Computer Interaction, Organizational Behavior, and Macro-ergonomics. This unique publication is perfect for students, teachers, researchers, engineers, practitioners, managers, policy-makers, and media alike.

Cultural Identity and New Communication Technologies: Political, Ethnic and Ideological Implications

D. Ndirangu Wachanga (University of Wisconsin-Whitewater, USA)

Cultural Identity and New Communication Technologies: Political, Ethnic and Ideological Implications presents a careful blend of conceptual, theoretical and applied research in NCTs. This book examines content that places new communication technologies in a context that recognizes their seamless co-option into the designs of politics and culture, as well as the ideological hegemony of non-Western societies and interrogates the diagnostic degree to which the use of new communication technologies is demonstrative of the users’ imaginary relations to imaginary reality, their thoughts and perceptions.

Sociological and Philosophical Aspects of Human Interaction with Technology: Advancing Concepts

Anabela Mesquita (ISCAP, Portugal)

Sociological and Philosophical Aspects of Human Interaction with Technology: Advancing Concepts presents a careful blend of conceptual, theoretical and applied research in regards to the relationship between technology and humans. This book explores the importance of these interactions, aspects related with trust, communication, data protection, usability concerning organizational change, and e-learning. The advancement of these theories and practices will benefit from this publication as it provides a voice for the users.

Distributed Team Collaboration in Organizations: Emerging Tools and Practices

Kathy L. Millhauser (George Fox University, USA)

Distributed Team Collaboration in Organizations: Emerging Tools and Practices summarizes the challenges inherent in leading distributed teams and explores practices that are emerging to optimize distributed team performance. Learning to form and sustain high-performing distributed teams with members in multiple locations, time zones, and with diverse cultural perspectives requires new approaches to collaboration. This book highlights the new skills needed for leadership, collaboration, and cooperation and can aid organizations in developing these skills in the workforce.

Emerging Pervasive and Ubiquitous Aspects of Information Systems: Cross-Disciplinary Advancements

Judith Symonds (Auckland University of Technology, Australia)

Emerging Pervasive and Ubiquitous Aspects of Information Systems: Cross-Disciplinary Advancements reviews pervasive and ubiquitous computing as it informs modern information systems. This publication provides an overview of emerging trends in context-aware computing, pervasive and smart environments, as well as research on applications of pervasive technologies in healthcare organizations, work environments, and educational settings.
Human-Computer Interaction and Innovation in Handheld, Mobile and Wearable Technologies
Joanna Lumsden (Aston University, UK)

Human-Computer Interaction and Innovation in Handheld, Mobile and Wearable Technologies reviews concepts relating to the design, development, evaluation, and application of mobile technologies. Studies on mobile user interfaces, mobile learning, and mobile commerce contribute to the growing body of knowledge on this expanding discipline.

Semantic Web Personalization and Context Awareness: Management of Personal Identities and Social Networking
Miltiadis Lytras (University of Patras, Greece), Patricia Ordoñez de Pablos (University of Oviedo, Spain), and Ernesto Damiani (University of Milan, Italy)

Semantic Web Personalization and Context Awareness: Management of Personal Identities and Social Networking communicates relevant recent research in Semantic Web-based personalization as applied to the context of information systems. This book reviews knowledge engineering for organizational applications, and Semantic Web approaches to information systems and ontology-based information systems research, as well as the diverse underlying database and knowledge representation aspects that impact personalization and customization.

Managing IT Human Resources: Considerations for Organizations and Personnel
Jerry Luftman (Stevens Institute of Technology, USA)

Managing IT Human Resources: Considerations for Organizations and Personnel provides a comprehensive presentation of current and emerging perspectives focusing on all aspects of managing IT HR from the view of both practitioners and academics located around the globe. It will focus on the results of recent research (from leading practitioners and academics) and their implications to IT human resource considerations. It presents what IT professionals are seeking in a position, characteristics of the IT environment that contributes to the HR complexity, the retention of IT talent, stress in the workplace, IT career development, and the impact of IT outsourcing.

Human Development and Global Advancements through Information Communication Technologies: New Initiatives
Susheel Chhabra (Lal Bahadur Shastri Institute of Management, India) and Hakikur Rahman (University of Minho, Portugal)

Human Development and Global Advancements through Information Communication Technologies: New Initiatives investigates the role of ICT in advancing economic, social, and political development as well as the potential setbacks experienced as a result of introducing new initiatives. This publication offers strategies for continued societal growth through technology and provides historical perspectives on the processes, procedures, and behaviors that have been impacted as a result of ICT programs.

Organizational and End-User Interactions: New Explorations
Steve Clarke (Hull Business School, UK) and Ashish Dwivedi (University of Hull, UK)

Organizational and End-User Interactions: New Explorations provides a comprehensive look at studies that show a significant contribution in EUC by relating organizational and end user computing to organizational and end user performance and productivity, strategic and competitive advantage, and electronic commerce. This book touches on possible future directions of ECU, and why they are viewed as important for the future. The body of knowledge in this topic area continues to grow and with it comes a fertile ground for future exploration in the EUC domain.

Interactive Media Use and Youth: Learning, Knowledge Exchange and Behavior
Elza Dunkels (Umeå University, Sweden), Gun-Marie Franberg (Umeå University, Sweden), and Camilla Hallgren (Umeå University, Sweden)

Interactive Media Use and Youth: Learning, Knowledge Exchange and Behavior provides a comprehensive collection of knowledge based on different perspectives on quantitative and descriptive studies, what goes on in the contemporary media landscape, and pedagogical research on formal and non-formal learning strategies. This book outlines interactive media as an emerging research area, growing around young people and contemporary digital arenas. The field is growing in size, shape and complexity and the need for study is urgent.
Global Media Convergence and Cultural Transformation: Emerging Social Patterns and Characteristics

Dal Yong Jin (Korean Advanced Institute of Science and Technology, Korea)

Global Media Convergence and Cultural Transformation: Emerging Social Patterns and Characteristics aims to engage the complex relationship between technology, culture, and socio-economic elements by exploring it in a transnational, yet contextually grounded, framework. This book explores diverse perspectives and approaches, from political economy to cultural studies, and from policy studies to ethnography. In order to reflect varied perspectives on the convergence of culture and new media technology.

Handbook of Research on Methods and Techniques for Studying Virtual Communities: Paradigms and Phenomena (2 Vols.)

Ben Kei Daniel (University of Saskatchewan, Canada)

Handbook of Research on Methods and Techniques for Studying Virtual Communities: Paradigms and Phenomena satisfies the need for methodological consideration and tools for data collection, analysis and presentation in virtual communities. Chapters cover studies on various types of virtual communities, making this reference a comprehensive source of research for those in the social sciences and humanities. Additionally, the book supports executives and corporate leaders concerned with the management of expertise, social capital, knowledge, and information and organizational development in different types of virtual communities and environments.

Metaplasticity in Virtual Worlds: Aesthetics and Semantic Concepts

Gianluca Mura (Politecnico di Milano, Italy)

Metaplasticity in Virtual Worlds: Aesthetics and Semantic Concepts provides in-depth coverage of the state-of-the-art among the best international research experiences of virtual world concept creations from a wide range of media culture fields, at the edge of artistic and scientific inquiry and emerging technologies. Written for professionals, researchers, artists and designers, this text is a perfect companion for those who want to improve their understanding of the strategic role of virtual worlds within the development of digital communication.

Social Computing Theory and Practice: Interdisciplinary Approaches

Panagiota Papadopoulou (University of Athens, Greece), Panagiotis Kanellis (University of Athens, Greece), and Drakoulis Martakos (University of Athens, Greece)

Social Computing Theory and Practice: Interdisciplinary Approaches offers a holistic approach to social computing with respect to the underlying theory, technology and mechanisms, as well as the challenges, opportunities and impact of social computing to any application area. As such, the book provides a much needed interdisciplinary perspective of social computing and delivers a concentrated body of knowledge with contributions from diverse domains and fields.

Technologies for Supporting Reasoning Communities and Collaborative Decision Making: Cooperative Approaches

John Yearwood (University of Ballarat, Australia) and Andrew Stranieri (University of Ballarat, Australia)

Technologies for Supporting Reasoning Communities and Collaborative Decision Making: Cooperative Approaches includes chapters from diverse fields of enquiry including decision science, political science, argumentation, knowledge management, cognitive psychology and business intelligence. Each chapter illustrates a perspective on group reasoning that ultimately aims to lead to a greater understanding of reasoning communities and inform technological developments.
Virtual Collaborative Writing in the Workplace: Computer-Mediated Communication Technologies and Processes

Beth Hewett (Defend and Publish, USA) and Charlotte Robidoux (Hewlett-Packard, USA)

Virtual Collaborative Writing in the Workplace: Computer-Mediated Communication Technologies and Processes investigates the use of computer-mediated communication technologies, including everything from instant messaging and e-mail to interaction on Web pages, Webcasts, and graphical user interfaces, to facilitate effective interdependent collaboration in writing projects. This book focuses on the type of writing that typically occurs in virtual workplace settings, such as academic institutions, private and for-profit industry, and the government, in which the purpose of the writing is to convey information or argue a position rather than to socialize or entertain.

Gender Issues in Learning and Working with Technology: Social Constructs and Cultural Contexts

Shirley Booth (University of Witwatersrand, South Africa and University of Gothenburg, Sweden), Sara Goodman (Lund University, Sweden), and Gill Kirkup (Open University, UK)

Gender Differences in Learning and Working with Technology: Social Constructs and Cultural Contexts discusses the social studies of information technology, specifically how IT skills are learned and how such skills are gendered. This book draws upon the disciplines of sociology, education, cultural and media studies, and gender studies, using a variety of research methods and theoretical perspectives to approach gender and IT in different contexts: education settings, work settings and everyday life. This unique reference source brings to light gender relations and IT, examining them in a multidimensional way.


Tatyana Dumova (Montclair State University, USA) and Richard Fiorio (University of North Dakota, USA)

The Handbook of Research on Social Interaction Technologies and Collaboration Software: Concepts and Trends explores the origin, structure, purpose, and function of socially interactive technologies known as social software. This book addresses electronic systems and tools designed to advance social interaction, collaboration, and sharing of information.

Cases on Online Discussion and Interaction: Experiences and Outcomes

Leonard Shedletsky (University of Southern Maine, USA) and Joan E. Aitken (University of Missouri-Kansas City, USA)

Cases on Online Discussion and Interaction: Experiences and Outcomes contains examples of online discussions in a variety of contexts and for a variety of purposes, allowing readers to understand what is likely to facilitate discussion online, what is likely to encourage collaborative meaning-making, what is likely to encourage productive, supportive, engaged discussion, and what is likely to foster critical thinking. This book assembles cases that address an array of research methods, online communication media, forms of expression, communication contexts, and philosophical perspectives.
Handbook of Research on Discourse Behavior and Digital Communication: Language Structures and Social Interaction (2 Vols.)
Rotimi Taiwo (Obafemi Awolowo University, Nigeria)

The Handbook of Research on Discourse Behavior and Digital Communication: Language Structures and Social Interaction is a compendium of over 50 scholarly works on discourse behavior in digital communication. The diverse, but related disciplinary perspectives presented in this handbook further establishes how modern communication technologies are shaping discourse and social interaction all over the world; providing a comprehensive overview of empirical, as well as theoretical issues on digital communication from various regions of the world.

Interpersonal Relations and Social Patterns in Communication Technologies: Discourse Norms, Language Structures and Cultural Variables
Jung-ran Park (Drexel University, USA) and Eileen G. Abels (Drexel University, USA)

Interpersonal Relations and Social Patterns in Communication Technologies: Discourse Norms, Language Structures and Cultural Variables describes the growing proliferation of CMC applications and the need for new perspectives, methods and tools for research and practice. This reference work explores the conceptual foundations of computer-mediated interaction, language action and discourse features in various CMC contexts.

Law and Order in Virtual Worlds: Exploring Avatars, Their Ownership and Rights
Angela Adrian (University of Bournemouth, UK)

Law and Order in Virtual Worlds: Exploring Avatars, Their Ownership and Rights provides an understanding of the interface between the laws of the real world and the laws of the virtual worlds. Written for anyone who has ventured into a virtual reality and wondered what, if any, real world consequences would follow their actions, this book raises and answers compelling legal questions about such issues as owning virtual assets, intellectual property right infringements and virtual liabilities in the real world.

Interdisciplinary Perspectives on E-Collaboration: Emerging Trends and Applications
Ned Kock (Texas A&M International University, USA)

Interdisciplinary Perspectives on E-Collaboration: Emerging Trends and Applications focuses on e-collaboration technologies that enable group-based interaction, and the impact that those technologies have on group work. A defining body of research, this reference addresses a range of e-collaboration topics including interdisciplinary perspectives on e-collaboration, and adaptation and creativity in e-collaboration.

Recruitment, Development, and Retention of Information Professionals: Trends in Human Resources and Knowledge Management
Elisabeth Parkel (Kansas State University, USA), Danielle Theiss-White (Kansas State University, USA), and Mary C. Bushing (Library Consultant, USA)

Recruitment, Development, and Retention of Information Professionals: Trends in Human Resources and Knowledge Management highlights issues specific to information professionals (IPs) working in an academic environment. The evolution of scholarly communications and applications of technology are forcing IPs to reevaluate the way they operate. This book offers valuable insight into the newest strategies for thinking creatively and resourcefully about the latest trends in recruitment, retention, and professional development.
Social Computing: Concepts, Methodologies, Tools, and Applications (4 Vols.)

Subhasish Dasgupta
(University of Hull, UK)

Social Computing: Concepts, Methodologies, Tools, and Applications uncovers the growing and expanding phenomenon of human behavior, social constructs, and communication in online environments. This multiple volume publication presents the latest research on social change, evolving networks, media, and interaction with technology to offer audiences a comprehensive view.

Computational Advancements in End-User Technologies: Emerging Models and Frameworks

Steve Clarke (University of Hull, UK)

Computational Advancements in End-User Technologies: Emerging Models and Frameworks contains leading research and practices into the advancement, significance, and comprehensive nature of end-user computing. This publication provides academicians, researchers, and practitioners with a complete and practical resource of expert international findings.

Mass Customization for Personalized Communication Environments: Integrating Human Factors

Constantinos Mourlas (National & Kapodistrian University of Athens, Greece) and Panagiotis Germanakos (National & Kapodistrian University of Athens, Greece)

Mass Customization for Personalized Communication Environments: Integrating Human Factors focuses on the customization of services and communication environments to advance user satisfaction and provide a total redefinition of the way goods and services are created or sold and customers and vendors interact.

Adolescent Online Social Communication and Behavior: Relationship Formation on the Internet

Robert Zheng (University of Utah, USA), Jason Burrow-Sanchez (University of Utah, USA), and Clifford Drew (University of Utah, USA)

Adolescent Online Social Communication and Behavior: Relationship Formation on the Internet identifies the role and function of shared contact behavior of youth on the Web. With expert international contributions, this publication provides a deep understanding on various issues of adolescent Internet use.

Strategic Pervasive Computing Applications: Emerging Trends

Varuna Godara
(CEO of Sydney College of Management, Australia)

Strategic Pervasive Computing Applications: Emerging Trends combines the views and opinions of leading experts and practitioners in the field of pervasive computing technologies and infrastructure, considering trends and developments in pervasive applications. This innovative publication provides a significant reference source for professionals, managers, risk assessment practitioners, policy makers, and academicians throughout the world.

E-Collaborative Knowledge Construction: Learning from Computer-Supported and Virtual Environments

Bernhard Ertl
(Universitat der Bundeswehr Munchen, Germany)

E-Collaborative Knowledge Construction: Learning from Computer-Supported and Virtual Environments explores the construction of beneficial e-collaborative knowledge environments from four vital perspectives: educational, psychological, organizational, and technical. It offers several scenarios where the implementation of e-collaborative knowledge construction is necessary and then not only presents methods for facilitating e-collaborative knowledge construction, but also provides methods for assessing its results. This exciting new publication is a must-have for academics, researchers, and professionals who dare to discover new innovations!
Organizational Communication and Sustainable Development: ICTs for Mobility
Anette Hallin (Royal Institute of Technology, Sweden) and Tina Karrbom Gustavsson (Royal Institute of Technology, Sweden)

Organizational Communication and Sustainable Development: ICTs for Mobility explores how mobility meets sustainability in contemporary organizational communication. A compendium of chapters written by leading experts, this defining body of research sheds light on the advantages as well as disadvantages of the use of ICTs for social, economic, and environmental sustainability.

Ubiquitous and Pervasive Computing: Concepts, Methodologies, Tools, and Applications (3 Vols.)
Judith Symonds (Auckland University of Technology, New Zealand)

Ubiquitous and Pervasive Computing: Concepts, Methodologies, Tools, and Applications covers the latest innovative research findings involved with the incorporation of technologies into everyday aspects of life from a collaboration of accomplished field experts. This 3-volume reference source presents a wide range of unique topics in one premier research collection.

Educational Social Software for Context-Aware Learning: Collaborative Methods and Human Interaction
Niki Lambropoulos (London South Bank University, UK) and Margarida Romero (Université de Toulouse II, CNRS UMR-5263, France)

Educational Social Software for Context-Aware Learning: Collaborative Methods and Human Interaction examines socio-cultural elements in educational computing focused on design and theory where learning and setting are intertwined. This advanced publication addresses real-life case studies where evaluations have been applied and validated in computational systems.

Collaborative Technologies and Applications for Interactive Information Design: Emerging Trends in User Experiences
Scott Rummel (Consultant, laserthread.com) and Kwong Bor Ng (Queens College, City University of New York)

Collaborative Technologies and Applications for Interactive Information Design: Emerging Trends in User Experiences covers a wide range of emerging topics in collaboration, Web 2.0, and social computing, with a focus on technologies that impact the user experience. This cutting-edge reference source provides the latest international findings useful to practitioners, researchers, and academicians involved in education, ontologies, open source communities, and trusted networks.

Monitoring and Assessment in Online Collaborative Environments: Emergent Computational Technologies for E-Learning Support
Angel A. Juan (Open University of Catalonia, Spain), Thanasis Daradoumis (Open University of Catalonia, Spain), Fatos Xhafa (Open University of Catalonia, Spain), Santi Caballe (Open University of Catalonia, Spain), and Javier Faulin (Public University of Navarre, Spain)

Monitoring and Assessment in Online Collaborative Environments: Emergent Computational Technologies for E-Learning Support focuses on models and systems that perform efficient evaluation of student activity in Internet-based education. Containing research from leading international experts, this Premier Reference Source introduces original case studies and experiences of educators worldwide regarding e-learning activities.

Handbook of Research on Overcoming Digital Divides: Constructing an Equitable and Competitive Information Society (2 Vols.)
Enrico Ferro (Istituto Superiore Mario Boella (ISMB), Italy), Yogesh Kumar Dwivedi (Swansea University, UK), J. Ramon Gil-Garcia (Centro de Investigacion y Docencia Economicas (CiDE), Mexico), and M. D. Williams (Swansea University, UK)

The Handbook of Research on Overcoming Digital Divides: Constructing an Equitable and Competitive Information Society presents a comprehensive, integrative, and global view of what has been called the digital divide. This reference offers policy makers, academicians, managers, and researchers a complete source to interactions, evolutions, and policies within the field.
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