About the Contributors

Hamid Nemati is Associate Professor of Information Systems at the Information Systems and Operations Management Department of The University of North Carolina at Greensboro. He holds a doctorate from the University of Georgia. Before coming to UNCG, he was on the faculty of J. Mack Robinson College of Business Administration at Georgia State University. Dr. Nemati has extensive professional experience as a consultant business analyst, and system developer and has consulted with a number of major corporations. extensive professional experience as a consultant. His research articles has appeared in a number of major scholarly and professional journals.

Kirk P. Arnett, D.B.A. CCP, GSEC, is professor emeritus of Information Systems for Mississippi State University’s College of Business and Industry in the Department of Management and Information Systems. Prior to his 25 years of service with the College of Business and Industry, Dr. Arnett worked in the information processing area for 17 years. His research and creative achievement highlights include over 150 publications through journals, proceedings, and miscellaneous academic outlets, and several funded grants for research, service, and teaching.

Madhu Ahluwalia is a doctoral student at the University of Maryland, Baltimore County. She is primarily interested in privacy protecting techniques applicable in association rule mining and the practical significance of this area in business contexts such as the supply chain management. Her current focus is on problems associated with maintaining different kinds of summary information on evolving databases. Madhu’s other research interests include data warehousing and database systems, in particular database replication, database synchronization and database performance tuning. Her research contributions lie in the fields of privacy preserving data mining and database synchronization. She has recently completed an Academic Research Center fellowship at SAP Corp.

Patricia Beatty is a network engineer in San Francisco. Her research interests include trust and standards compliance in web-based systems. Patricia has a B.Sc. and an M.Sc. in Computer Engineering, both from the University of Alberta. Contact her at plbeatty@gmail.com.

Harkeerat Bedi is a graduate student pursuing his Ph.D. in computer science at the University of Memphis. He earned his master’s in computer science from the University of Tennessee at Chattanooga.
in August 2009. His master’s work included research on Fair Electronic Exchange where he, with guidance from his mentors Dr. Li Yang and Dr. Joseph Kizza aimed to improve an existing fair exchange protocol by handling several possible attacks and creating software that facilitated the same. His current research involves the application of game theory in network security for its analysis and improvement.

**Kent D. Boklan** is an NSA-trained cryptographer. He received his SB from MIT and PhD from the University of Michigan (in analytic number theory) and has written about twenty research papers in cryptography and cryptanalysis [but most of them are CLASSIFIED]. Dr. Boklan is presently on the faculty of Queens College and the City University of New York Graduate Center. He also provides data security and cryptographic consulting services to a variety of clients including Nike, the NYC Police Department, the NYC Sanitation Department and the NYC Department of Buildings. In his spare time, he breaks (historical) codes.

**Xubin Cao** is the Director of the Center of Experimental Teaching in Economics and Management at Southwestern University of Finance and Economics in China. His research interests include information security, knowledge management, e-learning, and e-business.

**Lei Chen** received his B.Eng. degree in Computer Science from Nanjing University of Technology, China, in 2000, and Ph.D. degree in Computer Science from Auburn University, USA, in Aug. 2007. He has been with Sam Houston State University as an Assistant Professor in Computer Science since 2007. Dr. Chen has been actively working in research in computer networks, network security and wireless and multimedia networking. In the past twelve months, he had eight papers/chapters published in major journals and conferences, and books. He also serves as reviewer of a number of books, journals and conferences.

**Zhiyuan Chen** is an Assistant Professor at Information Systems department, UMBC. He has a PhD in Computer Science from Cornell University. His research interests include privacy preserving data mining, semantic search and navigation, XML, automatic database tuning, and database compression.

**Glenn S. Dardick** is an Associate Professor of Information Systems within the College of Business and Economics at Longwood University in Farmville, Virginia USA and. Adjunct Associate Professor of Information Systems within the secAU Security Research Center at Edith Cowan University in Perth, Western Australia. He has over 35 years experience in the IT Industry and began working with microcomputers 29 years ago while serving as an original member of the IBM PC development team. Dr. Dardick is responsible for the Digital Forensics, Security and Law program at Longwood University teaching Digital Forensics and IT courses at the undergraduate and postgraduate levels. Dr. Dardick frequently consults with attorneys in matters concerning Digital Forensics and IT. He has testified in Federal, State and Sectarian courts within the United States. Dr. Dardick is also the Editor of the Journal of Digital Forensics, Security and Law and is the founder of the Association of Digital Forensics, Security and Law (ADFSL) and the annual ADFSL Conference on Digital Forensics, Security and Law.

**James W. Denton** is an Associate Professor in the College of Business and Economics at West Virginia University where he has taught courses, in basic information systems, programming, operations research and operations management. Prior to receiving his Ph.D. from Kent State University, Dr.
Denton worked in Engineering and Quality Assurance in several industrial settings. He has previously published research on neural networks and information systems education in the Journal of Computer Information Systems, the European Journal of Operational Research, Accounting, Management, and Information Technologies, the Journal of Information Systems Education and others.

Scott Dick is an Associate Professor of Computer Engineering at the University of Alberta. His research interests include computational intelligence, data mining, and machine learning. Scott has a Ph.D. in Computer Science and Engineering from the University of South Florida. He is a member of the IEEE and the ACM. Contact him at dick@ece.ualberta.ca

Michael Dixon is a Senior Lecturer in Information Technology at Murdoch University in Western Australia. He holds a PhD from Murdoch University and a MBA in Telecommunications Management from Golden Gate University. He is also a certified Cisco Certified Network Professional (CCNP), Cisco Certified Design Professional (CCDP), and Cisco Certified Academy Instructor (CCAI). His major research interests include information technology education, data communications and neural networks.

Guillermo A. Francia, III received his Ph.D. in Computer Science from New Mexico Tech. In 1996, Dr. Francia received one of the five national awards for Innovators in Higher Education from Microsoft Corporation. Dr. Francia served as a Fulbright scholar to Malta in 2007. His research interests include computer security, digital forensics, visualization, data mining, and performance dashboards. He has published extensively in books, journals, and conference proceedings and has delivered the keynote speech in several conferences. Currently, Dr. Francia is serving as Professor of Computer Science and Director of the Center for Information Security and Assurance at JSU.

Aryya Gangopadhyay is a Professor of Information Systems at the University of Maryland Baltimore County (UMBC). He has a PhD in Computer Information Systems from Rutgers University. His research interests include privacy preserving data mining, data cube navigation, and core and applied research on data mining. He has co-authored and edited three books, many book chapters, and numerous papers in peer-reviewed journals.

Wasim A Al-Hamdani, holds a Ph.D. in Computer Science (1985) from the University of East Anglia, Norwich, UK. He is currently an Associate Professor of Cryptography and Information Security at Kentucky State University (KSU). He has published six textbooks and more than 53 papers dealing with Computer Science and Cryptography. For the past 19 years, he has concentrated his research in cryptography and information security.

Wen-Chen Hu received a BE, an ME, an MS, and a PhD, all in Computer Science, from the Tamkang University, Taiwan, the National Central University, Taiwan, the University of Iowa, Iowa City, and the University of Florida, Gainesville, in 1984, 1986, 1993, and 1998, respectively. Currently, he is an associate professor in the Department of Computer Science of the University of North Dakota, Grand Forks. He is the Editor-in-Chief of the International Journal of Handheld Computing Research (IJHCR), and has been over 20 editors and editorial advisory/review board members of international journals/books and more than 10 track/session chairs and program committee members of international conferences. Dr. Hu has published over 70 articles in refereed journals, conference proceedings, books,
About the Contributors

and encyclopedias, edited three books, and solely authored a book entitled “Internet-enabled handheld devices, computing, and programming: mobile commerce and personal data applications.” His current research interests include handheld computing, electronic and mobile commerce systems, Web technologies, and databases.

Yongliang Hu received his B.S. in Computer Science from Sichuan University, China, in 1997, and M.S. degree in Computer Science from Hangzhou Dianzi University, China, in 2003. He has been with Taizhou University as an Associate Professor in Computer Science since 2007. He has been actively working in research in computer networks, network security and image processing. He has published over twenty papers/chapters in books, journals, and conference proceedings. He is currently leading a group in Taizhou University to conduct research on software theoretics and technology. Currently, Prof. Hu is serving as vice Director of School of Mathematic and Informamation Engineering at Taizhou University.

Terry Huston, Ph.D. is an optometrist with 15 years of clinical experience including over five years active duty with the U.S. Air Force in addition to civilian private practice. He holds a Ph.D. in Management Information Systems from the University of Pittsburgh and has spent 13 years in academia, teaching and doing research in various areas of Information Technology with a special interest in Security and Privacy issues. He is presently a health care information technology consultant in Canada and the U.S.

Princely Ifinedo is an Associate Professor at the Shannon School of Business, Sydney, Cape Breton University, Canada. He earned his PhD in Information Systems Science from the University of Jyväskylä, Finland. He obtained an MBA in International Management from Royal Holloway College, University of London, UK. His current research interests include Global IT management, IS security issues, IT and SMEs, and ERP success measurement. His research papers have appeared in such journals as Computers in Human Behavior, Journal of Computer Information Systems, Information Management & Computer Security, Enterprise Information Systems, International Journal of Information Security and Privacy, and Journal of Global Information Technology Management, and Information for Development. He has authored (and co-authored) about 70 peer-reviewed papers, and he is affiliated with AIS, CIPS, DSI, and ISACA.

Dulal C. Kar received the B.Sc.Engg. and the M.Sc.Engg. degrees from Bangladesh University of Engineering and Technology, Dhaka, Bangladesh and the MS and the Ph.D. degrees from North Dakota State University, Fargo, North Dakota. Currently he is working as an associate professor in the Department of Computing Sciences at Texas A&M University – Corpus Christi, Texas. Previously, he was a faculty in the Department of Computer Science at Virginia Polytechnic Institute and State University, Virginia; Mountain State University, West Virginia; and Bangladesh University of Engineering and Technology, Bangladesh. He is an associate editor of the International Journal of Distance Education Technologies published by IGI Global. His research interests include wireless sensor networks, signal and image processing algorithms, network architecture and performance measurement, network and information security, information retrieval, and educational technology.

Virginia Kleist is an Associate Professor at the College of Business and Economics at West Virginia University. Her research area includes investigating the information goods industries and cost versus benefit issues of biometrics, network security and knowledge management technologies. Recent publica-
About the Contributors

Alex Kosachev is a business analyst with CrystalWare, Inc. a private company specializing in marketing and selling active and discontinued China, Crystal, Silver, and Collectible products. Prior to joining Replacements, Ltd in the year 2000, he worked as a network specialist at the Customs Information Center in Ukraine. I hold M.S. in Electrical Engineering from the National Technical University of Ukraine in Kiev and M.S. in Information Technology and Management from the University of North Carolina in Greensboro.

Hua Lin is a senior software engineer at the School of Nursing, University of Virginia. She has over a decade’s experience in software engineering, web development, and information security. Hua received her M. S. degree in Software Engineering from George Mason University and is a certified database administrator.

Yong Lu is an assistant professor of Information Sciences and Technology at Pennsylvania State University. His research interests center around virtual communities, social capital, and information security. He has published papers in journals including Computers & Education, Communications of AIS, International Journal of Mobile Learning and Organisation, International Journal of Information Security and Privacy and others.

Tanya McGill is a Senior Lecturer in Information Technology at Murdoch University in Western Australia. She has a PhD from Murdoch University. Her major research interests include information technology education and end user computing. Her work has appeared in various journals including Decision Support Systems, Journal of Research on Computing in Education, European Journal of Psychology of Education, Information Resources Management Journal and Journal of Organizational and End User Computing.

James Miller is a Professor of Computer Engineering at the University of Alberta. His research interests include software verification and validation embedded, Web-based, and ubiquitous environments. James has a Ph.D. in Computer Science from the University of Strathclyde. He is a member of the IEEE. Contact him at jm@ece.ualberta.ca.

William Mitchell is a doctoral student in the Department of Computer Science at the University of Denver. He earned his master’s degree in mathematics from the University of Illinois at Urbana Champagne and bachelor’s from University of Colorado at Denver, majoring also mathematics. His research interests include information security, mathematical foundations of security, and graph theory.
About the Contributors

**Bonnie Morris** is the Go-Mart Professor of Accounting Information Systems in the College of Business and Economics at West Virginia University. Dr. Morris’ research interests are in the areas of forensic accounting, IT audit, and privacy policy compliance. Recent research projects have focused on continuous auditing, privacy issues, auditing electronic data interchange (EDI) systems, financial EDI, and case-based reasoning systems for auditing and financial statement analysis. She teaches courses in accounting systems, information systems auditing, and fraud data analysis. Dr. Morris holds a Ph.D. in Accounting with a Minor in Artificial Intelligence from the University of Pittsburgh, as well as an M.B.A. from the University of Pittsburgh and a B.A. in Mathematics from West Virginia University.

**Clifton J. Mulkey** graduated from Eastern New Mexico University in 2009 with a double major Bachelor’s degree in Computer Science and Mathematics. He is currently pursuing a Master’s degree in Computer Science at Texas A&M University – Corpus Christi. His current research interests include Identity Based Encryption as well as Quantum Key Distribution. He is also active in information assurance, cyber defense, and system administration.

**Hung Ngo** received his B.S. degree in Computer Science from University of Natural Sciences, Vietnam in August 2006. He worked in industry for two years before going back to school to pursue his M.S. in Computer Science. He is now a graduate student in the Department of Computing Sciences at Texas A&M University – Corpus Christi. His current research interests include Wireless Sensor Networks, Wireless Security, and Digital Signal Processing.

**Benjamin Ngugi** is an Assistant Professor in the Information Systems and Operations Management at the Sawyer Business School, Suffolk University in Boston. He received his Ph.D. in Information Systems from New Jersey Institute of Technology and his Bachelors in Electrical and Electronics Engineering from University of Nairobi, Kenya. He conducts his research in the areas of biometrics, legal data security compliance, business intelligence and technology adoption. Ben brings over eleven years of professional experience initially as a system engineer and then as a Technical Director in charge of technical sales, installations and training in computer networks, security systems and satellite systems. He has published his research in journals including Decision Support Systems, International Journal of Information Security and Privacy, The Case Journal and the ACM Journal of Data quality.

**Lee Novakovic** is in a graduate program with a governmental consumer affairs agency. He has an Honours degree in Computer Science from Murdoch University. His research interests include information security, data communications and human factors in computing.

**Filippo Passerini** studied Physics at the University of Florence. His graduate work on physics was done at the Perimeter Institute for Theoretical Physics and University of Waterloo under the supervision of Professor Jaume Gomis. He is presently postdoctoral researcher at the Humboldt University Berlin. His research interests are focused on String Theory, with particular attention to the holographic duality between gauge theories and string models.

**Joanne Pratt** is president of her consulting firm, Joanne H. Pratt Associates. She is recognized as a futurist for her research on new work patterns enabled by technology. Her research includes the impacts of remote work on corporate work patterns, work/life, and privacy issues. She was the only US mem-
ber of the European Union funded team studying telework and information-age employment. She has conducted research for the US Small Business Administration, the Bureau of Transportation Statistics, and other federal agencies, and has led research projects for private sector clients. Her research publications include E-Biz.com: Strategies for Small Business Success, Counting the New Mobile Workforce, Impact of Location on Net Income, and Homebased Business: the Hidden Economy. Her degrees are from Oberlin College and Harvard University.

**Ian Reay** is a software developer with Hitachi ID in Calgary, Alberta. His research interests lie in privacy preservation, computer security, and identity management systems. He has a B.Sc. and an M.Sc. in Computer Engineering from the University of Alberta. Contact him at shakennotstir69@hotmail.com.

**Geetha Sanapala** received her M.Sc. degree in Information Systems from Osmania University, India in July 2003. She is currently pursuing Masters degree in Computer Science from the Texas A&M University of Corpus Christi. As part of her degree program, she is working as a Research Assistant with focus on security aspects of Wireless Sensor Networks. Prior to this, she had a chance to work with United Online Ltd (India) in the department of Information Security and Anti-Spam operations.

**Simone Severini** studied Chemistry at the University of Siena and Philosophy at the University of Florence. He obtained a Ph.D. in Mathematics under the supervision of Richard Jozsa. He has been postdoctoral researcher in the Department of Combinatorics & Optimization at the University of Waterloo. He is currently a Newton International Fellow at University College London. His research interests are in Quantum Theory, Discrete Mathematics, and Complex Systems.

**Sushil K. Sharma** is a Professor of Information Systems at Ball State University, Muncie, Indiana, USA. Co-author of two textbooks and co-editor of six books, Dr. Sharma has authored over 100 refereed research papers in many peer-reviewed national and international MIS and management journals, conferences proceedings and books. His primary teaching and research interests are in e-commerce, computer-mediated communications, community informatics, information systems security, e-government, ERP systems, database management systems, web services and knowledge management. He has a wide consulting experience in information systems and e-commerce and has served as an advisor and consultant to several government and private organizations including projects funded by the World Bank.

**James Suleiman**, Ph.D. (www.usm.maine.edu/~suleiman) is an Associate Professor of Information Systems at University of Southern Maine’s School of Business and a Senior Research Associate at the Center for Business and Economic Research. He received his B.S. in Finance from Lehigh University, his M.B.A. from University of South Florida and his Ph.D. in MIS from University of Georgia. He was a consultant for Cap Gemini Ernst & Young’s division of Telecommunications Media and Networks, worked for IBM and consulted for various Fortune 500 firms. His research interests include information systems education, computer security, and computer supported cooperative work.

**Gary F. Templeton** is an Associate Professor of Management Information Systems at Mississippi State University. He earned his BS in Finance, MBA, MMIS and PhD in MIS from Auburn University. Among his peer-reviewed publications, he has published in the Journal of Management Information Systems, the Journal of the AIS, the European Journal of Information Systems, and Communications of the ACM. His research focuses on topics that advance organizational learning and information security.
**About the Contributors**

**Ramakrishna Thurimella** received his PhD in Computer Science from the University of Texas at Austin. He is currently the Director of Colorado Research Institute for Security and Privacy, an NSA designated Center for Academic Excellence in Information Assurance Education, at the University of Denver. He is also an associate professor of Computer Science at the University of Denver where he regularly teaches courses on information security and forensics. His research interests include network security, intrusion detection, and mathematical foundations of information security. He has made fundamental contributions to algorithmic graph connectivity, and other areas in theoretical computer science. His current focus is on applying some of the existing theory from graph connectivity to identify weaknesses in the Internet infrastructure. He is a member of ACM and IEEE.

**Monica Trifas** received her BS and MS in Computer Science degrees from University of Bucharest, Bucharest, Romania in 1996. She joined Jacksonville State University (JSU) in Fall 2005, after she completed the Ph.D. in Computer Science at Louisiana State University (LSU). Her dissertation, “Medical Image Enhancement”, focused on contrast enhancement for medical images. Dr. Trifas’s research interests include Digital/Video Image Processing, Medical Imaging, Human Computer Interaction, Bioinformatics, Artificial Intelligence, Data Mining, and Visualization. She is the author of over 15 publications on medical image enhancement methods, visualization, data security, video coding in leading computer science journals and conference proceedings. She is the reviewer of various international journals and conferences. Currently, Dr. Trifas is serving as Director of the Center for Information Security and Assurance at JSU. Dr. Trifas’ complete background information can be found in http://mcis.jsu.edu/faculty/atrifas.

**Thomas P. Van Dyke** is an assistant professor of Information Systems and Operations Management at the University of North Carolina, Greensboro. He received his Ph.D. in business computer information systems at the University of North Texas. His current research interests include Privacy and Security, IT leadership and Human factors. His previous publications appear in journals such as MIS Quarterly, Decision Sciences, and Electronic Markets.

**David A. Vance**, Ph.D, Southern Illinois University, is Professor of Information Systems and head of the Business Information Systems program at Olivet Nazarene University. He is a former executive in the telecommunications and computer technology industries. His research interest is the influence of information policy on organizational behavior. Dr. Vance is the founding editor of the AIS-ISWorld Internet pages on computer ethics education.

**Gina Vega**, Ph.D. is Professor of Management and founding Director of the Center for Entrepreneurial Activity at the Bertolon School of Business at Salem State University. She conducts her research in three complementary streams revolving around organizational structure: entrepreneurship and business transitions, ethics, and the evolving world of work. Dr. Vega is widely published in academic journals, including Entrepreneurship Theory & Practice, Journal of Management Education, Journal of Business Ethics and others, and she has presented papers nationally and internationally on issues of business transitions, technology, and corporate social responsibility. She has written three books (A Passion for Planning: Financials, Operations, Marketing, Management, and Ethics [University Press of America, 2001], Managing Teleworkers and Telecommuting Strategies [Praeger Publishers, 2003]), and Moral Courage in Organizations: Doing the Right Thing at Work (with D.R. Comer) [M.E. Sharpe, forth-
Dr. Vega is currently a CASE Fellow, Editor of The CASE Journal, and Associate Editor for the Journal of Management Education. She teaches Small Business Management and Corporate Social Responsibility.

**Xunhua Wang** is an Assistant Professor of computer science at James Madison University (JMU) in Virginia, USA, and teaches cryptography and information security courses there. He received his Ph.D. from George Mason University in 2002. Dr. Wang’s research interests include applied cryptography, network security, and software engineering. He has published a dozen of refereed papers in information security and his work was sponsored by Cisco. He is a member of IEEE.

**Huinan Xu** now is an executive manager at Ernst&Young. His current focus is on areas of Information Systems auditing and security assurance advisory practices. Prior to E&Y, he was a senior consultant with IBM Global Business Services. Dr. Xu received his Ph.D in MIS from Brunel University, UK.

**Hui-min Ye** is now studying in Computer Science as Ph.D. student at University of Vermont, United States. Her current focus is data provenance, specifically about semantics of data provenance and ways to guarantee users of data understand the background of the data. Previously, Ms. Ye has worked on several state-sponsored research projects at Chinese Academy of Science, Beijing China.

**Li Yang** is an Associate Professor in the Department of Computer Science and Electrical Engineering at University of Tennessee at Chattanooga. Her research interests include network and information security, databases, and engineering techniques for complex software system design. She authored papers on these areas in refereed journal, conferences and symposiums. She is a member of the ACM.

**Ming Yang** received his B.S. and M.S. degrees in Electrical Engineering from Tianjin University, China, in 1997 and 2000, respectively, and Ph.D. degree in Computer Science and Engineering from Wright State University, Dayton, Ohio, USA in 2006. He is currently with Montclair State University as an Assistant Professor in Computer Science. His research interests include Digital Image/Video Coding, Multimedia Communication & Networking, and Information Security. He is the author/co-author of over twenty publications in leading computer science journals and conference proceedings. He also serves as reviewer of numerous international journals and conferences.

**Lei Zhang** is an assistant professor of computer science, Frostburg State University, University System of Maryland. She received M.S. and Ph.D. from Auburn University in 2005 and 2008. Before she pursued her graduate study in the U.S, she worked as an instructor at school of Electrical Engineering & Automation, Tianjin University, China. Her current research interests include Wireless Networks Protocols Design and Applications, Distributed Algorithm, Information Security, Data Mining and Human Computer Interaction. She is a member of IEEE/ACM. She has been a technical reviewer for numerous international journals and conferences.

**Feng Zhu** received the B.S. degree in computer science from East China Normal University in 1994, the M.S. degree in computer science and engineering from Michigan State University in 2001, the M.S. degree in statistics from Michigan State University in 2005, and the Ph.D. degree from Michigan State University in 2006. He is an assistant professor at The University of Alabama in Huntsville. He was a
program manager at Microsoft from 2006 to 2008, and a software engineer at Intel from 1997 to 1999. His current research interests include pervasive computing, security and privacy, computer networks, and statistical system analysis and design.

Wei Zhu received the Ph.D. degree in computer science and engineering from Michigan State University in 2006, the M.S. degree in statistics from Michigan State University in 2004, the M.S. degree in computer science and engineering from Michigan State University in 2001, and the B.S. degree in computer science from East China Normal University in 1994. Her research interests include human-computer interaction, pervasive computing, computer graphics, augmented reality, and multimedia systems. She is currently a software consultant at Intergraph Corporation. She was a software design engineer at Microsoft Corporation from 2006 to 2008.