An Excellent Addition to Your Library!

Released: April 2011

Theoretical and Practical Advances in Information Systems Development: Emerging Trends and Approaches

Keng Siau (Missouri University of Science and Technology, USA)

Information system design and development is of interest and importance to researchers and practitioners, as advances in this discipline impact a number of other related fields and help to guide future research.

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.

Topics Covered:

- Designing document SQL
- High-dimensional data cube storage
- Information systems development
- Learner-centered design
- Object-oriented domain modeling
- Online privacy policies
- Querying Web sources
- Relational databases
- Reverse engineering
- XML data services


Print: US $180.00 | Perpetual: US $255.00 | Print + Perpetual: US $360.00

Theoretical and Practical Advances in Information Systems Development: Emerging Trends and Approaches

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Keng Siau is the Chair of the Department of Business and Information Technology at the Missouri University of Science and Technology. Prior to joining the Missouri University of Science and Technology in June 2012, he was the Edwin J. Faulkner Chair Professor and Full Professor of Management at the University of Nebraska-Lincoln. Professor Siau is the Editor-in-Chief for the Journal of Database Management, North America Regional Editor for the Requirements Engineering journal, and Co-Editor-in-Chief for the Advances in Database Research series. He is the Vice President of Education for the Association for Information Systems and serves on the Board of Partnership for Advancing Computing Education (PACE). He received his PhD in Business Administration (major: Management Information Systems; minor: Psychology) from the University of British Columbia in 1996. His MSc and BSc (honors) degrees are in Computer and Information Sciences from the National University of Singapore. Professor Siau has more than 250 academic publications. According to the ISI Web of Science and Google Scholar, he has more than 1600 and 4000 citation counts respectively. His h-index, according to Harzing’s Publish or Perish, is 33. In 2011, he was ranked as one of the top researchers in his field based on h-index and productivity rate. In 2006, he was ranked as one of the top ten e-commerce researchers in the world (Arithmetic Rank of 7, Geometric Rank of 3). In the same year, the citation count for his paper “Building Customer Trust in Mobile Commerce” is ranked in the top 1% within the field as reported by Essential Science Indicators. Professor Siau has received numerous teaching, research, and service awards. He received the University of Nebraska-Lincoln Distinguished Teaching Award and the College of Business Administration Distinguished Teaching Award in 2001. He received the University of Nebraska-Lincoln College of Business Administration Research Award in 2005. He is a recipient of the prestigious International Federation for Information Processing (IFIP) Outstanding Service Award in 2006, the IBM Faculty Awards in 2006 and 2008, and the IBM Faculty Innovation Award in 2010.

www.igi-global.com

Publishing Academic Excellence at the Pace of Technology Since 1988
Section 1:

Chapter 1
Visual Support for Use Case Modeling:
Gemino Andrew (Simon Fraser University, Canada)
Parker Drew (Simon Fraser University, Canada)

Chapter 2
Applying Learner-Centered Design Principles to UML Sequence Diagrams
VanderMeer Debra (Florida International University, USA)
Dutta Kaushik (Florida International University, USA)

Chapter 3
Ontology Based Object-Oriented Domain Modeling:
Evermann Joerg (Memorial University of Newfoundland, Canada)
Wand Yair (The University of British Columbia, Canada)

Section 2:

Chapter 4
General Strategy for Querying Web Sources in a Data Federation Environment
Firat Aykut (Northeastern University, USA)
Wu Lynn (Massachusetts Institute of Technology, USA)
Madnick Stuart (Massachusetts Institute of Technology, USA)

Chapter 5
Information Privacy:
Kane Gerald (Boston College, USA)
Swirag Kathy Stewart (Kennesaw State University, USA)
Stoney Veda (Georgia State University, USA)

Chapter 6
Reverse Engineering from an XML Document into an Extended DTD Graph
Shiu Herbert (City University of Hong Kong, Hong Kong)
Fong Joseph (City University of Hong Kong, Hong Kong)

Chapter 7
Scalable XML Filtering for Content Subscriptions
Choi Ryan (KAIST, Korea)
Wong Raymond (The University of New South Wales, Australia)

Section 3:

Chapter 8
Towards Autonomic Workload Management in DBMSs
Niu Baoning (Taiyuan University of Technology, China & Queen’s University, Canada)
Martin Patrick (Queen’s University, Canada)
Powell Wendy (Queen’s University, Canada)

Chapter 9
XTEngine:
Taha Kamal (The University of Texas at Arlington, USA)

Chapter 10
Towards Structured Flexibility in Information Systems Development:
Karlsson Fredrik (Orebro University, Sweden)
Ågerfalk Pär J. (Uppsala University, Sweden & University of Limerick, Ireland)

Chapter 11
On Efficient Evaluation of XML Queries
Sakr Sherif (University of New South Wales, Australia)

Section 4:

Chapter 12
Cost Modeling and Range Estimation for Top-k Retrieval in Relational Databases
Ayanso Anteneh (Brock University, Canada)
Goes Paulo (University of Arizona, USA)
Mehta Kumar (George Mason University, USA)

Chapter 13
Document SQL (DSQL):
Sengupta Arijit (Wright State University, USA)
Ramesh V. (Indiana University, USA)

Chapter 14
Range-Sum Queries over High Dimensional Data Cubes Using a Dynamic Grid File
Yu Feng (Southern Illinois University, USA)
Luo Cheng (Coppin State University, USA)
Yu Xiaoguang (Southern Illinois University, USA)
Hou Wen-Chi (Southern Illinois University, USA)
Wang Chih-Fang (Southern Illinois University, USA)
Wainer Michael (Southern Illinois University, USA)

Order Your Copy Today!

Name: ________________________________
Organization: ________________________________
Address: __________________________________
City, State, Zip: ________________________________
Country: __________________________________
Tel: __________________________________
Fax: __________________________________
E-mail: __________________________________

☐ Enclosed is check payable to IGI Global in US Dollars, drawn on a US-based bank
☐ Credit Card ☐ Mastercard ☐ Visa ☐ Am. Express

3 or 4 Digit Security Code: ________________________________
Name on Card: __________________________________
Account #: __________________________________
Expiration Date: ________________________________