About the Contributors

**Hamid Nemati** is an 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 and a Master of Business Administration from The University of Massachusetts. Before coming to UNCG, he was on the faculty of J. Mack Robinson College of Business Administration at Georgia State University. He also has extensive professional experience as a consultant with a number of major corporations. Dr. Nemati is the Editor-in-Chief of International Journal of Information Security and Privacy and the Advances in Information Security and Privacy (AISP) Book Series. His research specialization is in the areas of decision support systems, data warehousing and mining, and information security and privacy. His research articles have appeared in a number of premier journals. He has presented numerous research and scholarly papers nationally and internationally.

**Li Yang** is an Associate Professor in the Department of Computer Science and Engineering at the University of Tennessee at Chattanooga. She received her Ph.D. Florida International University and joined University of Tennessee at Chattanooga in 2005. Her research interests include network and information security, databases, and engineering techniques for complex software system design. She actively involves students into her research. She authored papers on these areas in refereed journal, conferences and symposiums. She received research awards from College of Engineering in the University of Tennessee at Chattanooga in 2007. She is a member of the ACM and IEEE. Currently she concentrates her teaching in Information Security, database security, and Computer Networks.

***

**Wasim Al-Hamdani** is Associated Professor at Kentucky State University, Department of Computer science Dr. Al-Hamdani, was working at university of Technology (Baghdad 1985-1999) then he taught in many universities , He was Professor of Cryptography at University of Technology, Baghdad; Jordanian University of Zaytoonah, Jordan; Ajman University of Science and Technology, UAE; Etisalat college of Engineering; Emirates Telecommunications Corporation Sharjah, UAE. He supervises the establishing of MSC and PhD programs at deferent universes; He supervises many M.Sc. and PhD projects. He published six text (in Arabic) concerning computer science and Cryptography. His major work for last 19 year is Cryptography algorithms and information security.

**Leemon Baird** is a Professor of Computer Science and the Director of Research for the Department of Computer Science at the United States Air Force Academy. He is also a researcher in the Academy
Center for Cyberspace Research. His PhD in computer science is from Carnegie Mellon University. His research interests include jam resistant coding, computer security, and machine learning.

**Harkeerat Singh Bedi** is a graduate student pursuing his Master in Computer Science at the University of Tennessee at Chattanooga. His work includes research on Fair Electronic Exchange where he, with guidance from his advisors Dr. Li Yang and Dr. Joseph Kizza aims to improve an existing fair exchange protocol by handling several possible attacks and creating software that facilitates the same. The software implementation includes use of biometric fingerprint scanners for user authentication and generation of cryptographic keys that are used for fair exchange. His research paper on *Fair Electronic Exchange Using Biometrics* published in *Cyber Security and Information Intelligence Research Workshop* in 2009 provides a brief overview on this research work.

**Nikolaos Bourbakis** (IEEE Fellow-96) received his Ph.D. in Computer Engineering & Informatics, University of Patras, Greece. He currently is the Associate Dean for Research, the OBR Distinguished Professor of IT and the Director of the Assistive Technologies Research Center (ATRC) at Wright State University, OH. His’ industrial experience includes IBM, CA, Soft Sight, NY and AIIS, OH. He pursues research in Applied AI, Machine Vision, Bioinformatics & Bioengineering, Assistive Technology, Information Security/Processors, and Parallel/Distributed Processing funded by USA and European government and industry. He has published extensively in refereed International Journals, book-chapters and Conference Proceedings. His research work has been recognized with several prestigious IBM, IEEE awards, like IEEE Technical Achievement Award 1998.

**Chih-Cheng Chang** is a Ph.D. student in the Department of Computer Science at Rutgers University, New Brunswick. He received his undergraduate B.S. degree in Computer Science from Rutgers University in 2007. His research interests are in web, network, and information security, in particular browser security, malware detection and data privacy. He is working under the direction of Prof. Danfeng Yao.

**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. He also serves in the editorial advisory/review board and the technical program committee of a number of books, journals and conferences.

**Brian D. Ensor** is a Ph.D. student in the Graduate School of Computer and Information Sciences at Nova Southeastern University and Head of Architecture for the National University of Ireland, Galway. He previously worked at the Digital Enterprise Research Institute as the Head of Technical Services and received his Master of Science in Information Assurance from Norwich University, Vermont. He heads a team of forward-thinking IT professionals focused on systems and technical architecture, business process integration, and identity and access management innovations. His current research interests include privacy enhancement and user centric control within identity management.

**Ralph F. Grove**: Ralph F. Grove is a professor in the Computer Science Department at James Madison University, and coordinator of the Secure Software Engineering program at JMU. He earned his Ph.D.
About the Contributors

in Computer Science and Engineering from the University of Louisville. Prior to entering academia he worked for 15 years in the information technology industry as a software developer, IT manager, and IT trainer. His research interests include Web development, artificial intelligence, and software engineering.

Slawomir Grzonkowski is a researcher at DERI, National University of Ireland, Galway. He is the leading person of the DRM lab within the eLearning Cluster in Digital Enterprise Research Institute (DERI Galway). He is the creator and the main developer of SeDiCi and FRM. His research interests and scientific publications are related to semantic web, security, digital rights and trust in social networks. Slawomir also served as a reviewer, PC member and a workshop organizer at many international scientific initiatives related to his research interests. His work on security and digital identity resulted in over 20 scientific articles at international journals, conferences and workshops.

Hossain Heydari is a professor in the Computer Science Department, Coordinator of the Information Security program, and Associate Director for Information Assurance (Institute for Infrastructure and Information Assurance) at James Madison University. He earned his Ph.D. in Computer Science from the University of Texas at Dallas. His research interests include Information Security, Interconnection Networks and Parallel Architectures, Telecommunication Networks, E-Commerce, VLSI Layout and Routing. He is a member of IEEE, ACM, and ISSA.

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, 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.

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, a publication of 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.
**Joseph M. Kizza** received his Ph.D. from the University of Nebraska-Lincoln in 1989 with a concentration in Combinatorics and Analysis and Design of Algorithms. He joined the Department of Computer Science at the University of Tennessee at Chattanooga in 1989 and he is currently a professor. He is an internationally known speaker on social computing and information security and assurance. He has published extensively in journals and conference proceedings and authored seven books on computer ethics, network security and cyberethics. Some of these books have been translated into several languages. He is a member of ACM and IEEE and a UNESCO expert in Information Technology.

**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.

**Bill McDaniel** is an eLearning cluster leader at the Digital Enterprise Research Institute. Bill brings over 33 years experience as a software entrepreneur and researcher. He has started and sold two software development companies and been CTO of three others. He also opened the first internet café in North Texas. Before joining DERI he spent two and a half years at Adobe Systems as a Senior Scientist in the Advanced Technology Lab researching semantic technology applications in the areas of document search and knowledge discovery. His current research interests are in human computer interaction, eLearning, artificial intelligence, and ubiquitous and pervasive computing. He has co-authored 6 books on the impact of emerging technology on business and society, including Critical Mass: a Primer for Living with the Future. His latest is Semantic Digital Libraries, available from Springer.

**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. 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.

**Kunal Sharma** has been teaching in the Department of Management Studies, now rechristened as Institute of Management Studies as a faculty since 2001. He is employed with DOEACC Society, Chandigarh, Ministry of IT, Govt. of India as Sr. Systems Analyst. He has done his B.Tech (CSE) from NIT, Hamirpur and he is a MBA(IT) from Institute of Management Studies. He is pursuing thesis dissertation from the H.P. University entitled Strategic Architecture for E-Learning-A Case Study of H.P. University. His areas of interest include E-Commerce and E-learning.

**A. J. Singh** has been teaching in Department of Computer Science, Himachal Pradesh University Shimla, India, since 1992. At present he is designated as Associate Professor. He has done Bachelor of

**Ramakrishna Thurimella** received his Ph.D. 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 B.S. and M.S. in Computer Science degrees from University of Bucharest, Bucharest, Romania in 1996. She joined JSU in Fall 2005, after she completed the Ph.D. in Computer Science at Louisiana State University. Her dissertation, “Medical Image Enhancement”, focused on contrast enhancement for medical images. Dr. Trifas’ research interests include Digital Image/Video Processing, Medical Imaging, Human Computer Interaction, Bioinformatics, Artificial Intelligence, Data Mining, and Visualization. She is the author of over fifteen 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/

**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.

**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 has been with Jacksonville State University as an Assistant Professor in Computer Science since 2006. His research interests include Digital Image/Video Coding, Multimedia Communication & Networking, and Information Security. He has actively participated in and significantly contributed to various large-scaled research projects funded by different agencies. 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. He is currently leading a group in Jacksonville State University to conduct research on medical image security and privacy, H.264/AVC video coding, and video streaming over wireless networks.
Danfeng Yao is an Assistant Professor in the Department of Computer Science at Rutgers University, New Brunswick. She received her Computer Science Ph.D. degree from Brown University. Her research interests are in network and information security, in particular user-centric security and privacy, social- and human-behavior pattern recognition, insider threats, secure information sharing, data privacy, and applied cryptography. Danfeng has more than 25 publications on various topics of security and privacy. She won the Best Student Paper Award in ICICS 2006, and the Award for Technological Innovation from Brown in 2006, both for her privacy-preserving identity management work. Danfeng has one provisional patent filed for her recent bot detection techniques. She is a member of DIMACS and DHS DyDAn Centers.

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.