About the Contributors

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**Noor Zaman** acquired his Degree in Engineering in 1998, and Master’s in Computer Science at the University of Agriculture Faisalabad Pakistan in 2000. His academic achievements further extended with a PhD in Information Technology at University Technology PETRONAS (UTP), Malaysia. He is currently working as a Faculty member in the College of Computer Science and Information Technology, King Faisal University, in Saudi Arabia. He takes care of versatile operations including teaching, research activities, information technology management and leading ERP projects. He headed the Department of Information Technology (IT), and administered the prometric center in the Institute of Business and Technology (BIZTEK), in Karachi Pakistan. He has worked as a consultant for Network and Server Management remotely in Apex Canada USA base Software house and call center. Dr. Noor Zaman has authored several research papers in internationally recognized index journals and well reputed conferences. He Authored and edited several books, has many publications to his credit. He is an Associate Editor, Regional Editor, and Reviewer for a number of reputed international research journals around the world. He has completed several international research grants and currently involved with different funded projects in different countries. His area of interest include Wireless Sensor Network (WSN), Mobile Computing, Cloud Computing, Network and Communication, Software Engineering, Green technology, Artificial Intelligence, Operating system, Unix, and Linux.

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Zeyar Aung received his Bachelor of Computer Science (Honors) degree from University of Computer Studies, Yangon, Myanmar in 1999, and his PhD in Computer Science from the National University of Singapore in 2006. He is currently an Assistant Professor at the Computing and Information Science Program of Masdar Institute of Science and Technology, Abu Dhabi, United Arab Emirates. Prior to that, he worked as a Research Fellow at the Data Mining Department of the Institute for Infocomm Research (I2R), A*STAR, Singapore. Dr. Aung’s current research interests include cyber security, smart grids, data mining, information retrieval, and wireless sensor networks. His past research interests were in bioinformatics and chemoinformatics. As of July 2012, he has published 23 research articles in various scientific journals and conferences. He has received a total of 130+ citations for his publications.

Tanya Bondarouk is Associate Professor of Human Resource Management at the University of Twente, the Netherlands. She serves as the European Regional Editor for the Personnel Review journal. Since 2002 she has been busy with the emerging research area of Electronic HRM, and has edited a number of special issues in international journals on this topic. Her main publications concern an integration of Human Resource Management and social aspects of Information Technology Implementations and appear in the International Journal of HRM, Personnel Review, European Journal of Management, and European Journal of Information Systems. Her research covers both private and public sectors and deals with a variety of areas such as the implementation of e-HRM, management of HR-IT change, HRM contribution to IT projects, roles of line managers in e-HRM, implementation of HR Shared Service Centers. She has conducted research projects with the Dutch Ministry of Interior and Kingdom Relations, Dow Chemical, Ford, IBM, ABN AMRO bank, and Shell. Among her current research projects are Implementation of HR Shared Service Centers at the Dutch Ministry of Defense, a large non-academic hospital, and the Belgian Federal Public Health Service. Since 2006 she is involved in organizing European Academic Workshops on e-HRM, and International Workshops on HRIS.

Partha Chakraborty is the Sr. Director & Head of Global Delivery R&D Practice in Cognizant Life Sciences (www.cognizant.com). He is a BTech from Indian Institute of Technology (IIT), Kharagpur. He has worked with large healthcare providers and multiple large global pharmaceuticals globally and led IT transformation in Clinical & Safety as well as the implementation of critical engagements. He
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has presented his point of view in FDA Science Congress, CDISC Interchange, International Society of Pharmacovigilance (ISOP) and DIA. He is instrumental in creating the 1st certificate course, in Pharmacovigilance in India, launched by Symogen, UK. He has written a chapter, called “Role of Information Technology on Drug Safety” in a recently published book “Elements of Pharmacovigilance”; “Statistical Methods Applied in Drug Safety” in a recently published book “Handbook of Research on Pharmacoinformatics.”

José Fonseca received his PhD in Informatics Engineering from the University of Coimbra in 2011. Since 2005, he has been with the Centre for Informatics and Systems of the University of Coimbra (CISUC) as a researcher. He teaches computer related courses in the Polytechnic Institute of Guarda since 1993. He is the author or co-author of more than a dozen papers in refereed conferences and he has acted as referee for many international conferences in the dependability and security areas. His research on vulnerability and attack injection was granted with the DSN’s William Carter Award of 2009, sponsored by the IEEE Technical Committee on Fault-Tolerant Computing and IFIP Working Group on Dependable Computing and Fault Tolerance (WG 10.4).

Fausto Pedro García Márquez got the European Doctorate on Engineering at the School of Industrial Engineers (ETSII) of Ciudad Real, University of Castilla-La Mancha (UCLM, Spain), March 2004. He is Engineering from University of Cartagena in Murcia, Spain, (September 1998) and Technical Engineer from the Polytechnic University School at UCLM (September 1995), and recently, he got the degree in Business Administration and Management at the Faculty of Law and Social Sciences at UCLM (December 2006). He also holds the titles of Super Technician in Labor Risks Prevention by UCLM (July 2000) and Transport Specialist at the Polytechnic University of Madrid, Spain, (June 2001). As a complement to his education, he has 32 courses with more than 1300 hours.

Syeda Umema Hani is currently about to finish her PhD research work in Software Engineering field with an interest in area of “Software Development Process Improvement” from Graduate School of Engineering Science and IT, Hamdard University. She has seven national and international level publications in her profile. She is a registered member of Pakistan Engineering Council and has been a part of INMIC technical committee. She has previously worked as a Software Engineer and Project Manager in Software Houses. Currently she is working as an Asst. Professor in Sir Syed University of Engineering and Technology and teaching Software Engineering, Relational Database Management Systems, Computer Programming and Problem Solving, and Data structures. Her professional interests also include requirement engineering, project management, strategic management, process improvement frameworks CMMI and COBIT5, and Six Sigma methodology.

Qazi Mudassar Ilyas, having started his career in academia more than a decade ago and serving for the most prestigious universities of Pakistan including University of the Punjab, Lahore and Ghulam Ishaq Institute, Topi, joined King Faisal University as a faculty member in 2010. He earned Bachelor’s in Engineering from University of Agriculture, Pakistan with a Gold Medal, Master’s in Computer Science from the same university and PhD in Information and Communication Engineering from Huazhong University of Science and Technology, China with Excellent Student Award. His research interests include Semantic Web, knowledge engineering, machine learning, and human computer interaction.
He is approved supervisor for PhD thesis by Higher Education Commission of Pakistan and member of scientific bodies including IEEE, Internet Society and Pakistan Engineering Council. He is also a member of editorial/reviewer boards of several scientific journals and conferences.

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**Low Tang Jung** obtained his Bachelor’s degree in Computer Technology from Teesside University, UK in 1989, MSc IT from National University of Malaysia in 2001 and PhD in IT from University Teknology PETRONAS UTP in 2011. Low has been in the academic line for the past 21 years as Senior Lecturer in various public and private institutes of higher learning. He teaches various engineering and ICT courses. He is currently a Senior Lecturer in Computer and Information Sciences Department, Universiti Teknologi PETRONAS, Malaysia. His research interests include wireless technology, embedded systems, wireless sensor networking, and robotics. Some of his current ongoing R&D projects and other completed projects have been recognized at national as well as international level by winning medals and awards at various national and international exhibitions/competitions. Low has his research works published in various conference proceedings and journals.

**Elvira Immacolata Locuratolo** graduated in Mathematics in 1978 at the University of Naples and carried out post-degree research at the “Istituto di Elaborazione dell’Informazione” of the National Research Council at Pisa (IEI-CNR). Since 1982, she has been a researcher at IEI-CNR and at the “Istituto di Scienze e Tecnologie dell’Informazione” of the National Research Council at Pisa (ISTI–CNR) Pisa. She is the author of numerous articles in books and journals. Her activity has been focused on algorithms and implementations of mapping from conceptual to logical database models, on model transformations and on meta-modelling. The main results obtained consist in the introduction of formal methods of conceptual database design, database re-engineering, approaches to data mining, ontology for database preservation and semantics for image databases. Recent research has regarded the transportation of some of these methods to the new scientific area of concept theory. Among her collaborations include those with the Rutherford Appleton Laboratory at Oxford and with the Tampere University of Technology at Pori, Finland.
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Khine Khine Nyunt received her Bachelor of Science (Honors) Mathematics degree from University of Yangon, Myanmar in 1991 and her Master’s in Computer Science from Institute of Computer Science & Technology, Yangon, Myanmar in 1995 and her second Master in Management of Technology from National University Singapore in 2008. She is currently holding a Lecturer position at King Faisal University, Kingdom of Saudi Arabia. Prior to that, she worked as a Lecturer at Management Development Institute of Singapore, Curtin University of Technology, Multimedia University, Malaysia and Institute of Computer Science and Technology, Myanmar with over ten years of teaching experience in course of Computer Science subjects. Her current research interests include knowledge management, information retrieval and data mining.

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Rizaldy Rapsing has more than 20 years of combined experience in the education sector and IT industries. He was first trained in the EDP of a telecommunications company. From 1993 to 2001, he maintained working in universities and Software Development companies simultaneously, an experience that allowed him to develop skills both in programming, analysis, and communication. In 2001, after months of becoming IT Head, he focused on one job alone. In 2006, he decided to explore working
abroad, initially in Salalah College of Technology in Oman for more than 5 years and now in King Faisal University of Saudi Arabia. Currently, the College of Computer Sciences and Information Technology has entrusted him to concentrate on students’ research projects to align their research activities and address specific issues from the directives of the industry, the opportunity to offer alternative systems, or the proposal to solve problems relating to current procedures.

Huub Ruël is a Professor of International Business at Windesheim University of Applies Sciences, the Netherlands. He holds a Master in Work and Organisational Psychology, and a PhD in Business Administration/Human Resource Management. His thesis focused on implementation of IT’s in office-environments based upon Adaptive Structuration Theory-ideas. After that his main research focus became e-HRM, combining IT and HRM knowledge. In 2004 he published a book *E-HRM: Innovation or Irritation?* in which the results of e-HRM implementation in five large international companies were described. Articles derived from this e-HRM study have been published in academic and professional journals.

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Arshad Siddiqi has completed all his education in USA with BS in Computer Sciences, MBA in Management, and PhD in System Sciences. He has 30 years of upper level management experience in the ICT industry in many countries, presently working as Director ICT at Institute of Business Administration, Karachi, implementing Green Technology and Tier III Data Center/DRC.
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**Issa Traore** obtained a PhD in Software Engineering in 1998 from Institute Nationale Polytechnique (INPT)-LAAS/CNRS, Toulouse, France. He has been with the faculty of the Department of Electrical and Computer Engineering of the University of Victoria since 1999. He is currently an Associate Professor and the Coordinator of the Information Security and object Technology (ISOT) Lab at the University of Victoria. His research interests include biometrics technologies, computer intrusion detection, network forensics, software security, and software quality engineering. He has published over 100 technical papers in computer security in the last 10 years. He is currently serving as Associate Editor for the *International Journal of Communication Networks and Distributed Systems* (IJCNDS).

**Marco Vieira** is an Assistant Professor at the University of Coimbra, Portugal. Marco Vieira is an expert on dependability benchmarking and his research interests also include experimental dependability evaluation, fault injection, security benchmarking, software development processes, and software quality assurance, subjects in which he has authored or co-authored more than one hundred of papers in refereed conferences and journals. He has participated in many research projects, both at the national and European level. Marco Vieira has served on program committees of the major conferences of the dependability area and acted as referee for many international conferences and journals in the dependability and databases areas.

**Isaac Woungang** received his MSc & PhD degrees in Mathematics from the Université de la Méditerranée-Aix Marseille II, France, and Université du Sud, Toulon-Var, France in 1990 and 1994, respectively. In 1999, he received a MSc. degree from the INRS-Materials and Telecommunications, University of Quebec, Montreal, Canada. From 1999 to 2002, he worked as a Software Engineer at Nortel Networks. Since 2002, he has been with Ryerson University, where he is now an Associate Professor of Computer Science and Coordinator of the Distributed Applications and Broadband (DABNEL) Lab at Ryerson University. His current research interests include network security, and computer communication networks. Dr. Woungang has published six (6) book chapters and over seventy (70) refereed technical articles in scholarly international journals and conferences. He edited six (6) books in the areas of wireless networks, published by reputed publishers such as Springer, Elsevier, and Wiley.