



## ISF Editorial 2020

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Information Systems Frontiers, a Springer journal, began publication in July 1999 with a lead article by Nobel Laureate Kenneth Arrow on Team Theory and Distributed Processing (Arrow 1999). The journal has traditionally followed a format of four to five special issues or special sections per year and one or two general issues and has recently completed 20 years of publications (Beydoun et al. 2019).

Over the years, ISF has published special issues on wide-ranging cutting edge topics (Dwivedi et al. 2009). We provide a chronological list of all the special issues produced so far in the Appendix. Our guest editors come from all over the world, and include industry researchers as well as leading academics from institutions such as German Research Center for Artificial Intelligence (DFKI), Stanford University, University of Calgary, University of California at Berkeley, Texas A&M University, SUNY at Buffalo, University of Maryland, NIST, Hewlett-Packard Labs, CalTech, IIT Delhi, Carnegie Mellon University, Philips Research, Delft University of Technology, Wuhan University of Technology, University of Arizona, Swansea University, City University of Hong Kong, IBM Research, University of Technology, Sydney, IIM Calcutta, etc., etc.

Information systems (IS) have emerged as critical resources to be leveraged for organizational productivities in most business, social and economic enterprises. The success of an enterprise is a function of how its information resources are designed, operated and managed. The major advances in Information Technology (IT) have elevated information systems to a position of strategic importance in the modern competitive enterprise. Consequently, research and innovation in IS/IT has acquired new levels of significance in academia, industry and the consumer community.

There is a growing demand to provide a thorough understanding of IS/IT frontiers along with its foundations to meet

industry and academic needs. While the industry seeks to develop high performance IS/IT solutions to its business problems, academia looks to extend the reach of IS technology into new application domains. Information Systems Frontiers (ISF) has aimed to satisfy these needs by providing rigorous, timely research occurring at the forefront of the IS/IT field in both academia and the industry. This has been amply exemplified by the vast set of special issues produced over two decades of its publication that address cutting edge and emerging areas of IS/IT with a distinct multidisciplinary focus on IS/IT research and application. Unlike the traditional publication philosophy of exclusively concentrating on either academic research or industrial innovation, ISF has focused on the integration of multi-disciplinary interfaces with IS and IT. Thus, ISF has acquired a global recognition as an international scholarly journal designed to bridge the contributing academic disciplines and link academia with industry. The central aim of ISF is to publish original, well-written, self-contained contributions that elucidate novel research and innovation in IS/IT which advance the field fundamentally and significantly. Published bi-monthly, ISF has significantly accomplished the following goals and continues to develop its mission into new and higher levels of its focal areas and publishing philosophy:

- Provided a vibrant forum for both academicians and industry specialists to explore the multiple frontiers of the IS/IT field
- Brought innovative research on all aspects of IS/IT from analytical, behavioral and technological perspectives
- Fostered creativity at the emerging disciplinary interfaces leading to new frontiers in IS/IT research
- Enabled rapid dissemination of latest research and innovation, supported with a rigorous review processes

This issue of ISF marks an indeed important occasion in its journey: the successful culmination of 20 years of its publication and the start of a new road ahead in its mission. As a celebration of its accomplishments and a trendsetter for the next era in its journey, we present in this issue several invited

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articles from our distinguished advisory board members, in addition to regular papers. These articles include essays on the IS/IT productivity challenges by John Leslie King and Andrew J. Ehrenberg (2020); impact and intersection between the evolutionary quantum computing and the entangled web by Bernardo A. Huberman and Bob Lund (2020); a visionary essay on the emerging frontiers in smart environment and healthcare by Satyen Mukherjee (2020); cryptocurrencies and how they are changing the world of commerce by Xiaofan Li and Andrew B. Winston (2020); block chains in context by Andrew J. Ehrenberg and John Leslie King (2020) and an essay

on reconciliation of privacy with preventive cybersecurity using the bright internet approach by Jae Kyu Lee, Y. Chang, H. Y. Kwon and B. Kim (2020). We hope you find these articles intellectually stimulating and which could prophetically open new and important areas of research for years to come.

Finally, we wish to thank all the authors, referees, guest editors, executive and coordinating editors and particularly the Advisory Editorial Board (past and present) for all their support over the years. In closing we also thank the editorial staff of Springer who have worked diligently to get the papers published in time.

## Appendix

### Summary of Issues

Vol. 1, No. 1 & Vol. 1, No. 3, 1999	Inaugural issue
Vol. 1, No. 2, 1999	<b><u>From E-Business to Electronic Commerce: Integration of web technologies with business models</u></b> Guest Editor: M. Shaw, <i>University of Illinois at Urbana-Champaign</i>
Vol. 1, No. 4, 1999	<b><u>From E-Business to Electronic Commerce: Integration of web technologies with business models</u></b>
Vol. 2, No. 1, 2000	Guest Editor: M. Shaw, <i>University of Illinois at Urbana-Champaign</i>
Vol. 2, No. 3, 2000 & Vol. 2, No. 4, 2000	<b><u>Knowledge Management and Organizational Memory</u></b> Guest Editors: A. Abecker, <i>German Research Center for Artificial Intelligence (DFKI)</i> , Kaiserslautern, Germany; Stefan Decker, <i>Stanford University</i> ; F. Maurer, <i>University of Calgary, Alberta, Canada</i>
Vol. 3, No. 1, 2001 & Vol. 3, No. 2, 2001	<b><u>Philosophical Reasoning in Information Systems Research</u></b> Guest Editors: C. West Churchman, <i>University of California at Berkeley</i> ; J. Courtney, <i>Texas A&amp;M University</i> ; G. L. Sanders, <i>SUNY at Buffalo</i>
Vol. 3, No. 3, 2001	<b><u>Workflow Automation and Business Process Integration</u></b> Guest Editors: Edward A. Stohr, <i>New York University</i> ; J. Leon Zhao, <i>University of Arizona</i>
Vol. 3, No. 4, 2001	<b><u>Supply Chain Systems: Research and Practice</u></b> Guest Editors: Saul Gass, <i>University of Maryland</i> ; Al Jones, <i>NIST</i>
Vol. 4, No. 1, 2002	<b><u>Next Generation Enterprises: Advances in Virtual organizations and Mobile/Pervasive computing</u></b> Guest Editors: R. Ramesh & H. Raghav Rao, <i>SUNY Buffalo</i> ; Gabby Silberman, <i>IBM Watson Center</i>
Vol. 4, No. 2, 2002	Regular Issue
Vol. 4, No. 3, 2002	<b><u>Co-Design of Business and IT Systems</u></b> Guest Editors: K. Liu & Lily Sun, <i>University of Reading, UK</i> ; K. Bennett, <i>Durham University, UK</i>
Vol. 4, No. 4, 2002 & Vol. 5 No. 1, 2003	<b><u>Advances in Software Engineering; Theory and Practice</u></b> Guest Editors: M. Bauer, <i>University of Western Ontario</i> ; G. Hoffnagle & G. Silberman, <i>IBM</i> ; H. Johnson, <i>NRC</i>
Vol. 5, No. 2, 2003	<b><u>Information Dynamics in the Networked World</u></b> Guest Editors: Bernardo Huberman <i>Hewlett-Packard Labs</i> ; J. Ledyard, <i>CalTech Advisory Editor</i> ; Kenneth Arrow
Vol. 5, No. 3, 2003	<b><u>IT Investment Payoff in E-Business Environments</u></b> Guest Editors: Rajiv Kohli, <i>Trinity Health and University of Notre Dame</i> ; Susan Sherer, <i>Lehigh University</i> ; A Baron, <i>Cisco Systems</i>
Vol. 5, No. 4, 2003	<b><u>Business Applications of Uncertain Reasoning (Part I) and Informatics Support for Medical Research (Part II)</u></b> Guest Editors: Prakash P. Shenoy and Rajendra P. Srivastava, <i>University of Kansas</i> ; Harold P. Lehmann, <i>Johns Hopkins University</i> ; Advisory Editor: Edward Shortliffe, <i>Columbia Presbyterian Medical Center, NY</i>

Vol. 6, No. 1, 2004	<b><u>Object-Oriented Client/Server Internet Environments</u></b> Guest Editor: Amjad Umar, <i>Telcordia &amp; Fordham Graduate School of Business, NY</i>
Vol. 6, No. 2, 2004	<b><u>Cyberlaw: A Review of U.S. Criminal Civil and Evidence Law as It Applies to Computer Technology</u></b> Guest Editors: Susan W. Brenner, <i>University of Dayton</i> ; Joseph J. Schwerha IV, <i>Carnegie Mellon University</i> / Assistant District Attorney, <i>Washington County Courthouse</i>
Vol. 6, No. 3, 2004	<b><u>Network Convergence: Issues, Trends, and Future</u></b> Guest Editors: S. Chatterjee, <i>Claremont University</i> ; Amitava Dutta, <i>George Mason University</i> ; VB. Chandhok, <i>Nortel Networks</i>
Vol. 6, No. 4, 2004	<b><u>Industrial Information Systems Frontiers: Advances and Progress in the Pacific Rim</u></b> Guest Editors: Choon Seong Leem, <i>Yonsei University, Korea</i> ; Matthew K.O. Lee, <i>City University of Hong Kong</i> ; Sungwan Hong, <i>LG-CNS, Korea</i>
Vol. 7, No. 1, 2005	<b><u>Computer Supported Collaborative Learning Requiring Immersive Presence (CSCLIP)</u></b> Guest Editors: Ramesh Sharda, <i>Nicholas C. Romano, Jr. &amp; Joyce Lucca, Oklahoma State University</i> ; Lisa Neal, <i>EDS</i>
Vol. 7, No. 2, 2005	<b><u>Mobile Computing and Communications: Systems, Models and Applications</u></b> Guest Editors: Giri K. Tayi, S. S. Ravi & Sanjay Goel, <i>State University of New York at Albany</i> ; Ram Ramanathan, <i>BBN Technologies</i>
Vol. 7, No. 3, 2005	Regular Issue
Vol. 7, No. 4 & No. 5, 2005	<b><u>Advances in e-Technology and e-Services</u></b> Guest Editors: Soe-Tsyr Yuan, <i>National Chengchi University, Taiwan</i> , Jiming Liu, <i>Baptist University, Hong Kong</i>
Vol. 8, No. 1, 2006	<b><u>Knowledge Discovery in High-Throughput Biological Domains</u></b> Guest Editors: Igor Jurisica, <i>the Ontario Cancer Institute, UHN</i> , Janice Glasgow, <i>Queen's University, Ontario</i>
Vol. 8, No. 2, 2006	<b><u>Enterprise Architecture</u></b> Guest Editors: Hugo ter Doest, Marc Lankhorst, Henk Jonkers, <i>Telematica Instituut</i> , Hans Bosma, <i>Ordina Public Consulting</i> , Roel Wieringa, <i>University of Twente</i> , Farhad Arbab, <i>Centrum voor Wiskunde en Informatica, Netherlands</i>
Vol. 8, No. 3, 2006	Regular Issue
Vol. 8, No. 4, 2006	<b><u>Web and Distributed Information Systems</u></b> Guest Editors: Muhammad Younas, <i>Oxford Brookes University, UK</i> , Kuo-Ming Chao, <i>Coventry University, UK</i> , Ying Huang, <i>IBM Watson Research Center, USA</i>
Vol. 8, No. 5, 2006	<b><u>Economic Aspects of Information Security</u></b> Guest Editors: Lawrence A. Gordon, <i>University of Maryland, USA</i> , Martin Loeb, <i>University of Maryland, USA</i>
Vol. 9, No. 1, 2007	<b><u>Web Services to Services Computing: Technologies and Applications</u></b> Guest Editors: J. Leon Zhao & Mohan Tanniru, <i>University of Arizona</i> , Liang-Jie Zhang, <i>IBM Research</i>
Vol. 9, No. 2 & No. 3, 2007	<b><u>Enterprise Services Computing: Evolution and Challenges</u></b> Guest Editors: Donald W. Sparrow, <i>MITRE, USA</i> , Qing Li, <i>City University of Hong Kong, Hong Kong</i> , Patrick C. K. Hung, <i>University of Ontario Institute of Technology, Canada</i>
Vol. 9, No. 4, 2007	<b><u>Enterprise Distributed Computing: Model and Implementation</u></b> Guest Editors: Donald W. Sparrow, <i>MITRE, USA</i> , Qing Li, <i>City University of Hong Kong, Hong Kong</i> , Patrick C. K. Hung, <i>University of Ontario Institute of Technology, Canada</i>
Vol. 9, No. 5, 2007	<b><u>Secure Knowledge Management</u></b> Guest Editors: Nasir Memon, <i>Polytechnic University, Six MetroTech Center, USA</i>

	Thomas Daniels, <i>Iowa State University, USA</i>
Vol. 10, No. 1, 2008	Regular Issue
Vol. 10, No. 2, 2008	<b><u>Information Systems (IS) Sourcing</u></b> Guest Editors: Rudy Hirschheim, <i>Louisiana State University, USA</i> , Jens Dibbern, <i>University of Mannheim, Schloss, Germany</i> , Armin Heinzl, <i>University of Mannheim, Schloss, Germany</i>
Vol. 10, No. 3, 2008	<b><u>Decision Models for Information Systems Management</u></b> Guest Editors: Kweku-Muata Osei-Bryson, <i>Virginia Commonwealth University, USA</i> , Ojelanki Ngwenyama, <i>Ryerson University, Canada</i>
Vol. 10, No. 4, 2008	<b><u>Adoption and Use of Information &amp; Communication Technologies (ICT) in the Residential/Household Context</u></b> Guest Editors: Yogesh K. Dwivedi, <i>School of Business and Economics, UK</i> , Michael D. Williams, <i>School of Business and Economics, UK</i> , Viswanath Venkatesh, <i>University of Arkansas, USA</i>
Vol. 10, No. 5, 2008	<b><u>Enterprise Information Systems (EIS)</u></b> Guest Editors: Ling Li, <i>Old Dominion University, USA</i> , Ricardo Valerdi, <i>Massachusetts Institute of Technology, USA</i> , John N. Warfield, <i>George Mason University, USA</i>
Vol. 11, No. 1, 2009	<b><u>Ambient Intelligence</u></b> Guest Editors: Satyen Mukherjee, <i>Philips Research-North America, USA</i> , Emile Aarts, <i>Philips Research, The Netherlands</i> , Terry Doyle, <i>Philips Research, The Netherlands</i>
Vol. 11, No. 2, 2009	<b><u>Information and Communications Technology for Development</u></b> Guest Editors: Balaji Parthasarathy, <i>International Institute of Information Technology, Bangalore, India</i> , Krithi Ramamritham, <i>Department of Computer Science and Engineering, Indian Institute of Technology Bombay, Mumbai, India</i>
Vol. 11, No. 3, 2009	<b><u>Collaborative Business Process</u></b> Guest Editors: Chengfei Liu, <i>Information and Communication Technologies, Swinburne University of Technology, Melbourne, Australia</i> , Qing Li, <i>Department of Computer Science, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong, China</i> Xiaohui Zhao, <i>Information and Communication Technologies, Swinburne University of Technology, Melbourne, Australia</i>
Vol. 11, No. 4, 2009	<b><u>Knowledge Discovery and Management in Biomedical Information Systems</u></b> Guest Editors: Ying Liu, <i>Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hong Kong, China</i> , Lawrence Wing-Chi Chan, <i>The Hong Kong Polytechnic University, Hong Kong, China</i> , Chi-Ren Shyu, <i>University of Missouri-Columbia, Columbia, USA</i> , Ying Liu, <i>University of Texas at Dallas, Dallas, USA</i>
Vol. 11, No. 5, 2009	<b><u>Intelligent Systems and Smart Homes</u></b> Guest Editors: Ching-Hsien Hsu, <i>Chung Hua University, Taiwan</i> , Hamid R. Arabnia, <i>The University of Georgia, USA</i> , Jong Hyuk Park, <i>Hanwha S&amp;C Co., Ltd., Korea</i>
Vol. 12, No. 1, 2010	<b><u>Advances in Multi-Agency Disaster Management</u></b> Guest Editors: Marijn Janssen, <i>Delft University of Technology, Delft, The Netherlands</i> , JinKyu Lee, <i>Oklahoma State University, Tulsa, OK, USA</i> , Nitesh Bharosa, <i>Delft University of Technology, Delft, The Netherlands</i> , Anthony Cresswell, <i>Center for Technology in Government, University at Albany-SUNY, Albany, NY, USA</i>
Vol. 12, No. 2, 2010	Regular Issue
Vol. 12, No. 3, 2010	<b><u>Technology Acceptance, Usage, and Competitive Advantage</u></b> Guest Editors: Devaki Rau, <i>Northern Illinois University, USA</i> , Thorvald Haerem, <i>Norwegian School of Management, Norway</i> and <i>University of California, USA</i> ,

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- Vol. 12, No. 4, 2010 Gautam Ray, *University of Minnesota, USA*, Wei Zheng, *Northern Illinois University, USA*  
**Ethics and Information Systems**  
 Guest Editors: Maria Carla Calzarossa, *University of Pavia, Italy*, Ivo De Lotto, *University of Pavia, Italy*, Simon Rogerson, *De Montfort University, UK*
- Vol. 12, No. 5, 2010 **Advances in RFID technology**  
 Guest Editors: Quan Z. Sheng, *The University of Adelaide, Australia*, Sherali Zeadally, *University of the District of Columbia, USA*, Zongwei Luo, *The University of Hong Kong, China*, Jen-Yao Chung, *IBM T. J. Watson Research Center, USA*, Zakaria Maamar, *Zayed University, United Arab Emirates*
- Vol. 13, No. 1, 2011 **Terrorism Informatics**  
 Guest Editors: Hsinchun Chen, *University of Arizona, USA*, Yilu Zhou, *George Washington University, USA*, Edna F. Reid, *Catherine A. Larson, University of Arizona, USA*
- Vol. 13, No. 2, 2011 **Emerging Social and Legal Aspects of information systems with Web 2.0**  
 Guest Editors: Dickson K. W. Chiu, *Dickson Computer Systems, Hong Kong*, Eleanna Kafeza, *Athens University of Economics and Business, Greece*, Patrick C. K. Hung, *University of Ontario Institute of Technology, Canada*
- Vol. 13, No. 3, 2011 **Global IT and IT-enabled services**  
 Guest Editors: Michael Chau, *The University of Hong Kong, Hong Kong*, George L. Ball, *Raytheon Missile Systems, USA*, Jinghua Huang, *Tsinghua University, China*, Jian Chen, *Tsinghua University, China*, J. Leon Zhao, *City University of Hong Kong, Hong Kong*
- Vol. 13, No. 4, 2011 Regular Issue
- Vol. 13, No. 5, 2011 **Knowledge work and communication challenges in networked enterprises**  
 Guest Editors: Joseph Barjis, *Delft University of Technology, Netherlands*, Ashish Gupta, *Minnesota State University Moorhead, USA*, Ramesh Sharda, *Oklahoma State University, USA*
- Vol. 14, No. 1, 2012 **eHealth System Interoperability**  
 Guest Editors: Jens Weber-Jahnke, *University of Victoria, BC, Canada*, Liam Peyton, *University of Ottawa, ON, Canada*, Thodoros Topaloglou, *Rouge Valley Health Systems, ON, Canada*
- Vol. 14, No. 2, 2012 **Governance, risk and compliance: Applications in information systems** Guest Editors: Dr. Shazia Sadiq, *University of Queensland, Australia* Dr. Michael zur Muehlen, *Stevens Institute of Technology, USA* Dr. Marta Indulska, *University of Queensland, Australia*
- Vol. 14, No. 3, 2012 **Ubiquitous Multimedia Services**  
 Guest Editors: Dr. Shiguo Lian, *France Telecom R&D (Orange Labs), China* Dr. Jean-Henry Morin, *University of Geneva, Switzerland*, Dr. Stefanos Gritzalis, *University of the Aegean, Greece* Dr. Gregory L. Heileman, *University of New Mexico, USA*
- Vol. 14, No. 4, 2012 **Intelligent Grid and Cloud Computing**  
 Guest Editors: Dr. Jason J. Jung, *Yeungnam University, South Korea*  
 Dr. Yue -Shan Chang, *National Taipei University, Taiwan*  
 Dr. Ying Liu, *Hong Kong Polytechnic University, Hong Kong*  
 Dr. Chao-Chin Wu, *National Changhua University of Education, Taiwan*
- Vol. 14, No. 5, 2012 Regular Issue
- Vol. 15, No. 1, 2013 **Security Management and Technologies for Protecting Against Internal Data Leakages**  
 Guest Editors: Dr. Carly L. Huth, *Carnegie Mellon University, USA*  
 Dr. David W. Chadwick, *University of Kent, UK*  
 Dr. William R. Claycomb, *Carnegie Mellon University, USA*
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Vol. 15, No. 2, 2013	Dr. Ilsun You, <i>Korean Bible University</i> , Republic of Korea <b><u>Semantic Information Management</u></b> Guest Editors: Dr. Gabriele Kotsis, <i>Johannes Kepler University</i> , Austria Dr. Ismail Khalil, <i>Johannes Kepler University</i> , Austria
Vol. 15, No. 3, 2013	<b><u>Business Intelligence and the Web</u></b> Guest Editors: Dr. Jose -Norberto Mazón, <i>University of Alicante</i> , Spain Dr. Irene Garrigós, <i>University of Alicante</i> , Spain Dr. Florian Daniel, <i>University of Trento</i> , Italy Dr. Malu Castellanos, <i>HP Laboratories</i> , USA
Vol. 15, No. 4, 2013	<b><u>Information and Knowledge Management in Online Rich Presence Services</u></b> Guest Editors: Casey K. Fung, <i>Boeing Research and Technology</i> , USA Patrick C. K. Hung, <i>University of Ontario Institute of Technology</i> , Canada
Vol. 15, No. 5, 2013	<b><u>Green information systems &amp; technologies – this generation and beyond</u></b> Guest Editors: Joseph Sarkis, <i>Worcester Polytechnic Institute</i> , USA Chulmo Koo, <i>Kyung Hee University</i> , South Korea Richard T. Watson, <i>University of Georgia</i> , USA
Vol. 16, No. 1, 2014	<b><u>Dynamic intelligence towards merging cloud and communication services</u></b> Guest Editors: Ching-Hsien Hsu, <i>Chung Hua University</i> , Taiwan Jianhua Ma, <i>Hosei University</i> , Japan Mohammad S. Obaidat, <i>Monmouth University</i> , USA
Vol. 16, No. 2, 2014	<b><u>Advances in infrastructures and tools for multiagent systems</u></b> Guest Editors: Juan M. Alberola, <i>Universitat Politecnica de Valencia</i> , Spain Vicent Botti, <i>Universitat Politecnica de Valencia</i> , Spain Jose M. Such, <i>Lancaster University</i> , UK
Vol. 16, No. 3, 2014	<b><u>A special section in memory of Paul Gray (1930–2012). The application of “futures research” to MIS</u></b> Guest Editors: Anat Hovav, <i>Korea University</i> , South Korea Erran Carmel, <i>American University</i> , USA
Vol. 16, No. 4, 2014	Regular Issue
Vol. 16, No. 5, 2014	<b><u>Information Reuse, Integration, and Reusable Systems</u></b> Guest Editors: Chengcui Zhang, <i>The University of Alabama at Birmingham</i> , USA Elisa Bertino, <i>Purdue University</i> , USA Bhavani Thuraisingham, <i>The University of Texas at Dallas</i> , USA James Joshi, <i>University of Pittsburgh</i> , USA
Vol. 17, No. 1, 2015	<b><u>IS/IT Success and Failure</u></b> Guest Editors: Yogesh K. Dwivedi, <i>Swansea University</i> , UK David Wastell, <i>Nottingham University</i> , UK Helle Zinner Henriksen, <i>Copenhagen Business School</i> , Denmark Rahul De', <i>Indian Institute of Management Bangalore</i> , India
Vol. 17, No. 2, 2015	<b><u>Internet of Things (IoT) and Applications</u></b> Guest Editors: Pan Wang, <i>Wuhan University of Technology</i> , China Ricardo Valerdi, <i>University of Arizona</i> , USA Shangming Zhou, <i>Swansea University</i> , UK Ling Li, <i>Old Dominion University</i> , USA
Vol. 17, No. 3, 2015	<b><u>The role of information technology in service delivery</u></b> Guest Editors: Jaeki Song, <i>Texas Tech University</i> , USA Jeff Baker, <i>American University of Sharjah</i> , UAE Fred D. Davis, <i>University of Arkansas</i> , USA
Vol. 17, No. 4, 2015	<b><u>Agreement Technologies</u></b> Guest Editors: Carlos Iván Chesñevar, <i>Universidad Nacional del Sur</i> , Argentina Eva Onaindia, <i>Universitat Politecnica de Valencia</i> , Spain Sascha Ossowski, <i>University Rey Juan Carlos</i> , Spain George Vouros, <i>University of Piraeus</i> , Greece
Vol. 17, No. 5, 2015	<b><u>Advances in secure knowledge management in the big data era</u></b>

- Guest Editors: Chittaranjan Hota, *BITS-Pilani, Hyderabad campus, India*  
Shambhu Upadhyaya, *University at Buffalo, USA*  
Jamal Nazzal Al-Karaki, *Abu Dhabi Polytechnic, UAE*  
Guest Advisory Editors: Nasir Memon, *New York University, USA*
- Vol. 17, No. 6, 2015 **Business Process Analytics**  
Guest Editors: Karl R. Lang, *City University of New York, USA* Vojislav B. Mistic, *Ryerson University, Canada* J. Leon Zhao, *City University of Hong Kong, Hong Kong*
- Vol. 18, No. 1, 2016 **Collaboration technology in teams and organizations**  
Guest Editors: Gert-Jan de Vreede, *University of South Florida, USA*  
Pedro Antunes, *Victoria University of Wellington, New Zealand*  
Julita Vassileva, *University of Saskatchewan, Canada*  
Marco Aurélio Gerosa, *University of São Paulo, Brazil*  
Kewen Wu, *University of Saskatchewan, Canada*
- Vol. 18, No. 2, 2016 **Big data and analytics in healthcare**  
Guest Editors: Atreyi Kankanhalli, *National University of Singapore, Singapore* Jungpil Hahn, *National University of Singapore, Singapore*  
Sharon Tan, *National University of Singapore, Singapore* Gordon Gao, *University of Maryland, USA*
- Vol. 18, No. 3, 2016 **Emerging service orientations and transformations (SOT)**  
Guest Editors: Haluk Demirkan, *University of Washington-Tacoma, USA* James C. Spohrer, *IBM Almaden Research Center, USA*
- Vol. 18, No. 4, 2016 **Web of things**  
Guest Editors: Quan Z. Sheng, *School of Computer Science, The University of Adelaide*  
Xue Li, *School of Information Technology and Electrical Engineering, University of Queensland* Anne H. H. Ngu, *Department of Computer Science, Texas State University*  
Yongrui Qin, *School of Computing and Engineering, University of Huddersfield* Dong Xie, *Department of Computer Science and Technology, Hunan University of Humanities, Science and Technology.*
- Vol. 18, No. 5, 2016 **Foundations of Reuse**  
Guest Editors: Thouraya Bouabana-Tebibel, *LCSI Laboratory Ecole nNationale Supérieure d'Informatique Algiers, Algeria*  
Stuart H. Rubin, *Space and Naval Warfare Systems Center Pacific, San Diego, USA*
- Vol. 18, No. 6, 2016 **Knowledge and Competence Management: Developing Enterprise Solutions**  
Guest Editors: José Braga de Vasconcelos, *Universidade Atlântica, Barcarena, Portugal* Chris Kimble, *KEDGE Business School and Université Montpellier, Talence, France* Álvaro Rocha, *University of Coimbra, Coimbra, Portugal*
- Vol. 19, No. 1, 2017 Regular Issue
- Vol. 19, No. 2, 2017 **Driving Public Innovation using Big and Open Linked Data**  
Guest Editors: Marijn Janssen, *Delft University of Technology, The Netherlands*  
David Konopnicki, *IBM Haifa Research Lab, Israel*  
Teresa Harrison, *University at Albany, USA*  
Jane L. Snowdon, *IBM Corporation, USA*  
Adegboyega Ojo, *National University of Ireland, Ireland*
- Vol. 19, No. 4, 2017 **Smart, Connected Hospitality and Tourism**  
Guest Editors: Fevzi Okumus, *The University of Central Florida*  
Cihan Cobanoglu, *The University of South Florida Sarasota-Manatee*  
Francesco Ricci, *Free University of Bozen-Bolzano*  
Chulmo Koo, *Kyung Hee University*
- Vol. 19, No. 5, 2017 **Computational Intelligence and Applications**  
Guest Editors: Vijayan Sugumaran, *Oakland University, USA* Geetha, T. V., *Anna University, India*  
Manjula, D, *Anna University, India*  
Hema Gopal, *Tata Consultancy Services, India*
- Vol. 19, No. 6, 2017 **Big Data Analytics and Business Intelligence in Industry**  
Guest Editors: Shih-Chia Huang, *Department of Electronic Engineering, National Taipei University of Technology, Taipei City, Taiwan*  
Suzanne McIntosh, *Courant Institute of Mathematical Sciences, Center for Data*

*Science, New York University, New York Center for Urban Science and Progress, New York University, New York, USA*

*Patrick C. K. Hung, Faculty of Business and Information Technology, University of Ontario Institute of Technology, Oshawa, Canada*

Vol. 20, No. 1, 2018

**Special Section on Advances in Databases and Information Systems**

*Guest Editors: Ladjel Bellatreche, LIAS/ISAE-ENSMA – Poitiers University Poitiers France Patrick Valduriez, INRIA and LIRMM Montpellier France*

*Tadeusz Morzy, Institute of Computing Science Poznan University of Technology Poznan Poland*

Vol. 20, No. 2, 2018

**Special Issue on Big Data & Analytics for Societal Impact: Recent Research and Trends**

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