Editorial: A Message from the Editor-in-Chief

Ling Liu, Senior Member, IEEE

The IEEE Transactions on Services Computing (TSC) is the IEEE’s flagship publication for disseminating research results in all areas of services computing, including service-oriented architecture (SOA), web services, mashups, cloud computing, software as a service, business consulting methodology and utilities, business process modeling, transformation and integration and emerging service technologies, such as data storage technology, big data and analytics as a service, green computing, and energy-efficient computing technology. As Editor-in-Chief, I am open to exploring the opportunities for making TSC an exciting and definitive forum for attracting and publishing high-impact research contributions that are innovative and transformative, and for making TSC serve not only as an archival journal for providing a historical perspective of research development in services computing, but also as a forum for disseminating timely and exciting ongoing research that can stimulate innovation.

In this editorial, I would like to make three announcements:

1. First, on behalf of the Editorial Board, all authors, and readers of TSC, I would like to take this opportunity to thank the following 13 Associate Editors who served as the founding Editorial Board members for the first five years of TSC and retired at the end of 2012: Mikio Aoyama, Wu Chou, Ephraim Feig, Michael Goul, Hemant Jain, Kazuo Iwano, Frank Leymann, Akhil Kumar, Zhen Liu, Ming Shan, Jeffery Tsai, Zhiwei Xu, and Stephen Yau. They have contributed to the establishment and growth of TSC in many different ways.

2. Second, I would like to introduce 12 new Associate Editors who have recently joined the TSC Editorial Board, bringing their unique expertise on a wide range of areas in services computing to TSC: Karl Aberer, Luciano Baresi, Siobhán Clarke, José A.B. Fortes, Claude Godart, Manfred Hauswirth, Hans-Arno Jacobsen, Manish Parashar, Stefano Russo, Stefan Tai, Robert van Engelen, and Jie Wu. Short biographies and photos are included after this editorial.

3. Third, I would like to announce that TSC has formed its first Executive Advisory Committee, with six distinguished researchers as members, representing the computing, information technology, and business management areas in the field of services computing from both academia and industry:
   - Jiang-Jie Zhang (Chair): Founding Editor-in-Chief of TSC and an IEEE fellow.
   - Elisa Bertino: Founding Editorial Board member, professor at Purdue University, research director of CERIAS, ACM fellow, and IEEE fellow.
   - Ephraim Feig: Founding Editorial Board member, chair of the IEEE Technical Committee on Services Computing, and an IEEE fellow.
   - Michael Goul: Founding Editorial Board member and professor and chair of information systems in the W.P. Carey School of Business at Arizona State University.
   - Hemant Jain: Founding Editorial Board member and professor of information technology management in the Sheldon B. Lubar School of Business at the University of Wisconsin–Milwaukee.

I would also like to announce the Reviewer Appreciation Program launched by the IEEE Computer Society this year. Based on the recommendations from current TSC Associate Editors, we have selected five top reviewers:

- Yi-Min Chee: IBM T.J. Watson Research Center
- Christoph Feiinger: University of Stuttgart, Germany
- Michael Lyu: The Chinese University of Hong Kong, China
- Marco Netto: IBM Research, Brazil
- Fan Zhang: Massachusetts Institute of Technology

A special appreciation will be presented to them by the IEEE Computer Society. TSC will continue to be a part of the Reviewer Appreciation Program in our effort to recognize top reviewers in the coming years.

Finally, I would like to take this opportunity to thank all of the contributors to this issue and all past issues of TSC: the Editorial Board, the reviewers, the authors, the IEEE Computer Society’s staff members, and especially TSC’s staff members, Joyce Arnold, Kristen Vermeire, and Kimberly Sperka.

Ling Liu
Editor-in-Chief

For information on obtaining reprints of this article, please send e-mail to: tsc@computer.org.
Karl Aberer received the PhD degree in mathematics in 1990 from ETH Zürich. He has been a full professor of computer science and communication systems at the École Polytechnique Fédérale de Lausanne (EPFL), Switzerland, since 2000 and the vice-president of information systems at EPFL since September 2012. He was the director of the Swiss National Centre for Mobile Information and Communication Systems NCCR MICS from 2005 to 2012, the division manager of the research division on open adaptive information management systems at GMD-IPS1, Darmstadt, Germany, from 1992 to 1994, and a postdoctoral research fellow at ICSI, Berkeley, from 1991 to 1992. His research interests lie in semantic interoperability in decentralized systems, trust management and social networks, environmental monitoring and participatory sensing, and resource sharing in distributed systems. He has served on the editorial boards of several international journals, including World Wide Web, the ACM Transactions on Autonomous and Adaptive Systems, and The VLDB Journal. He is on the steering committee of the IEEE ICDE Conference, the IEEE P2P Conference, and the Social Informatics Conference, and has served as a general chair or program committee chair for many international conferences, including VLDB, ICDE, MDM, and WISE. His research is funded primarily by European Research Grants, SNF, Swiss Federal Funding, and industrial grants from companies.

Luciano Baresi is an associate professor at the Politecnico di Milano, and was also a visiting professor at the University of Oregon and a visiting researcher at the University of Paderborn, Germany. He was the program chair of the International Conference on Engineering Complex Computer Systems (ICECCS) in 2002, the ETAPS Conference on Fundamental Approaches on Software Engineering (FASE) in 2006, the International Conference on Web Engineering (ICWE) in 2007, the International Conference on Service-Oriented Computing (ICSOC) in 2009, the Symposium on Software Engineering for Adaptive and Self-Managing Systems (SEAMS) in 2012, and the Joint European Software Engineering Conference and ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE) in 2013. He is currently a member of the editorial boards of the ACM Transactions on Autonomous and Adaptive Systems and Service-Oriented Computing and Applications (Springer). He is also the chair of the IFIP working group (2.14/6.12/8.10) on service-oriented computing. He has coauthored more than 120 papers. Some of his papers have appeared in prestigious journals and magazines like the ACM Transactions on Software Engineering and Methodology, the IEEE Transactions on Software Engineering, IEEE Computer, IEEE Software, and IEEE Internet Computing. He is also the coauthor of a book in Italian. His research interests touch different aspects of software engineering. Though he started with formal approaches for modeling and specification languages, he then moved to UML and the design of web-based applications. He is now interested in distributed systems, service-based applications, and the different aspects of self-* mobile, and ubiquitous software systems.

Siobhán Clarke received the BSc degree in 1986 and the PhD degree in 2001 from Dublin City University. She is a professor in the School of Computer Science and Statistics at Trinity College Dublin. She served as the co-editor-in-chief of IEEE Internet Computing from 2006 to 2012 and is now an associate editor of IEEE Internet Computing and the IEEE Transactions on Software Engineering. She has served on numerous program committees and conference organizing committees, including general cochair of COMSWARE 2008 and Onward! 2010 and program cochair of ECOWS 2008 and Mobile Services 2013. She is co-principal-investigator of Lero, the Irish Software Engineering Research Centre. She was elected as a fellow of Trinity College Dublin in 2006, where she now leads the Distributed Systems Group and is the director of the multidisciplinary Trinity Research Centre on Smart and Sustainable Cities. Her current research focus is on software engineering models for the provision of smart and dynamic software services to urban stakeholders, addressing research challenges in the engineering of dynamic software in large-scale, ad hoc, mobile environments. She collaborates with Intel and IBM on this work.

José A.B. Fortes received the PhD degree from the University of Southern California. He is currently the AT&T Eminent Scholar and Professor of Electrical and Computer Engineering and Computer Science at the University of Florida. From 1984 to 2001, he was on the faculty of Purdue University at West Lafayette, Indiana. He served at the US National Science Foundation as director of the Microelectronics Systems Architecture program. His research areas include distributed computing, autonomic computing and fault-tolerant computing. He serves on the editorial boards of the following journals: IEEE Transactions on Cloud Computing, the International Journal on Parallel Programming, and the Journal of VLSI Signal Processing. He is a past member of the editorial boards of the IEEE Transactions on Parallel and Distributed Systems; Cluster Computing: The Journal of Networks, Software Tools, and Applications; the ACM Journal on Emerging Technologies in Computing Systems; and the Journal of Parallel and Distributed Computing. He is a fellow of the IEEE and a fellow of the AAAS.
Claude Godart is a professor at the Université de Lorraine. His center of interest concentrates on business process management, services computing, and cloud computing. He was the scientific director of the ECOO (environment for cooperation) INRIA project from 1998 to 2009 and is currently a member of the SCORE team of LORIA and INRIA Grand-Est. He has published more than 200 research papers. He was the general chair of Business Process Management (BPM) 2005, Web Information Systems Engineering (WISE) 2007, E-Business, E-Services, and E-Society (IFIP 13E) 2009, and several conference tracks and workshops. He has been implicated in several technology transfer projects with industries in France, Europe, and Japan (he was the first beneficiary of the Industrial Chair Hitachi/INRIA). He was one of the initiators of the Bonita Business Process Management system now developed by the Bonita company. He has directed 25 PhD theses and five of his students now hold professor positions. Learn more at http://www.loria.fr/~godart.

Manfred Hauswirth received the MSc degree in 1994 and the PhD degree in 1999 in computer science from the Technical University of Vienna. He is the vice-director of the Digital Enterprise Research Institute (DERI), Galway, Ireland, and a professor at the National University of Ireland, Galway (NUIG). His editorial service includes the Semantic Web Journal, the International Journal of Web Services Practices, and the International Journal on Semantic Web & Information Systems. He was on the steering committees of the IEEE Conference on Peer-to-Peer Computing (until the end of 2012) and the European/Extended Semantic Web Conference (resigned in February 2011). He has served on more than 180 program committees for international conferences and was a program cochair of the Seventh IEEE International Conference on Peer-to-Peer Computing (IEEE P2P) in 2007, general cochair of the Fifth European Semantic Web Conference (ESWC) in 2008, program cochair of the 12th International Conference on Web Information System Engineering (WISE) in 2011, program cochair of the 10th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE) in 2011, and evaluation track chair of the International Semantic Web Conference (ISWC) in 2012. He is on the boards of the Irish Wireless Sensors Enterprise Led Network, the scientific board of the Corporate Semantic Web research center at FU Berlin, and the Scientific Advisory Board of the Center for Sensor Web Technologies (CLARITY) in Dublin, Ireland. He is also the co-organizer of the Linked Data Group of the Future Internet Assembly, a caretaker of the Real World Internet group of the Future Internet Assembly, and a member of the Experts Reference Group of the Future Internet Architecture CSAs Coordination Group.

Hans-Arno Jacobsen received the MASc degree from the University of Karlsruhe, Germany, in 1994 and the PhD degree from Humboldt University, Berlin, in 1999. He is a professor of computer science and computer engineering. He directs and leads the research activities of the Middleware Systems Research Group. His research aims to ease the development of scalable, reliable, and secure large-scale distributed applications, focusing on event processing, publish-subscribe, service-orientation, aspect-orientation, and green middleware. Between 1992 and 1998, he engaged in predoctoral research activities working at various research laboratories worldwide, including LIFIA in Grenoble, France, ICSI in Berkeley, California, and LBNL in Berkeley, California. After completing his doctorate, between 1998 and 1999, he engaged in postdoctoral research at INRIA in Rocquencourt, France. He has served as a program committee member of various international conferences, including ICDCS, ICDE, Middleware, SIGMOD, OOPSLA, and VLDB. He was the program chair of the Fifth International Middleware Conference and the general chair of the Inaugural International Conference on Distributed Event-Based Systems in 2007. He is among the initiators of the DEBS conference series and the event-based.org research portal. Learn more at msrg.org.

Manish Parashar received the BE degree from Bombay University, India, and the MS and PhD degrees from Syracuse University. He is a professor of electrical and computer engineering at Rutgers University. He is the founding director of the Rutgers Discovery Informatics Institute (RDI2), the US National Science Foundation (NSF) Cloud and Autonomic Computing Center (CAC), and The Applied Software Systems Laboratory (TASSL) and is the associate director of the Rutgers Center for Information Assurance (RUCIA). He served as the program director in the Office of Cyberinfrastructure (OCI) at the NSF between 2009 and 2011, where he managed an approximately $150 million research portfolio in the areas of software sustainability, computational and data-enabled science and engineering, and cloud computing. His research interests are in the broad areas of parallel and distributed computing with a focus on computational and data-enabled science and engineering. He serves on the editorial boards and organizing committees of a large number of journals and international conferences and workshops, and has deployed several software systems that are widely used. He received the IBM Faculty Award (in 2010 and 2008), the Rutgers University Board of Trustees Award for Excellence in Research (2004-2005), the NSF CAREER Award (1999), the TICAM, University of Texas at Austin, Distinguished Fellowship (1999-2001), and the Enrico Fermi Scholarship, Argonne National Laboratory (1996). He is a fellow of the AAAS, the IEEE, and the IEEE Computer Society, and a senior member of the ACM. Learn more at http://parashar.rutgers.edu.
Stefano Russo received a degree in electronic engineering in 1988 and a PhD degree in computer and systems engineering in 1993, both from the Federico II University of Naples, where he was then an assistant professor from 1994 to 1998 and an associate professor until 2002. He is now a professor of computer engineering in the Department of Electrical Engineering and Information Technologies (DIETI) at the Federico II University of Naples, Italy. He is the chairman of the curriculum in computer engineering and he leads the MobiLab research group on distributed and mobile systems. He served as deputy head at the former Department of Computer and Systems Engineering from 2007 to 2012, and as director of the “C. Savy” National Laboratory of CINI (National Inter-Universities Consortium for Informatics) in Naples from 2004 to 2013. He teaches software engineering and distributed systems. His research interests touch software dependability, testing, software aging, middleware pub-sub technologies, and distributed and mobile computing. He served as a cochair or program committee member of many IEEE conferences and workshops, including, since 2004, the International Symposium on Object/Component/Service-Oriented Real-Time Distributed Computing (ISORC), the International Workshop on Software Aging and Rejuvenation (WoSAR), and the IEEE Workshop on Software Certification (WoSoCER). He served as a guest coeditor for Performance Evaluation and the Journal of Software. He has coauthored more than 150 scientific papers. His research has received public support by the European Union, Italian Ministry, Regione Campania, and private sponsorships by several companies, including Selex Sistemi Integrati, Ansaldo Breda, SESM, NEC Italia, and FIAT Elasis. He is a cofounder of the Critiware s.r.l. spin-off company (http://www.critiware.com).

Stefan Tai received a diploma in computer science and the PhD degree in engineering from TU Berlin, Germany. He is a professor at the Karlsruhe Institute of Technology (KIT), Germany. He is also a director at the FZI Research Center for Information Technology in Karlsruhe and in Berlin, Germany. He has led a research team at the KIT since November 2007 and at the FZI since April 2008. Prior to his appointments in Germany, he worked for 8.5 years as a research staff member at the IBM Thomas J. Watson Research Center in New York. He is a well-known expert in the areas of services computing and cloud computing, having published more than 70 peer-refereed articles and awarded multiple patents. He has served on the program committees of multiple international key conferences, including WWW, Middleware, ICSOC, and BPM. He is on the editorial boards of Springer’s Computing and the Springer LNCS Services Science Subline. He further acts as advisor to multiple national research programs in Europe.

Robert van Engelen received the BS and MS degrees in computer science from Utrecht University, the Netherlands, in 1994, and the PhD degree in computer science from the Leiden Institute of Advanced Computer Science (LIACS) at Leiden University, the Netherlands, in 1998. He is a full professor and department chair in the Department of Computer Science at the Florida State University. His research interests include web services, cloud computing, grid computing, programming languages and compilers, high-performance computing, problem-solving environments, and Bayesian networks. His research has been recognized with awards and sponsorships from the US National Science Foundation and the US Department of Energy (DOE), including a DOE Early Career PI award in 2002. He has published more than 70 refereed technical publications in international conferences and journals and has served on more than 40 technical program committees for international conferences. He is a senior member of the ACM and a member of the IEEE.

Jie Wu is the chair and Laura H. Carnell professor in the Department of Computer and Information Sciences at Temple University. Previously, he was a program director at the US National Science Foundation and a distinguished professor at Florida Atlantic University. His research interests include wireless networks, mobile computing, routing protocols, cloud and green computing, and social network applications. He has published more than 600 papers in scholarly journals, conference proceedings, and books. He has served on several editorial boards, including the IEEE Transactions on Parallel and Distributed Computing and IEEE Transactions on Mobile Computing. Currently, he serves on the editorial boards for the IEEE Transactions on Computers and Journal of Parallel and Distributed Computing. He was the general cochair for IEEE MASS 2006, IEEE IPDPS 2008, and IEEE DCOSS 2009, the program cochair for IEEE INFOCOM 2011, and the general chair for IEEE ICDCS 2013. He was also an IEEE Computer Society Distinguished Visitor and the chair for the IEEE TCDP. He is an ACM distinguished speaker and a fellow of the IEEE.