Editorial

SINCE its establishment in 2008, *IEEE Transactions on Services Computing* (TSC) has seen a steady growth. It has emerged as a globally renowned, highly impactful and the leading venue for publishing research work within the themes of *Services Computing*. It has been a pleasure to follow in the footsteps of my predecessors, Dr. Liang-Jie Zhang, the founding Editor-in-Chief (EIC) of TSC, and Dr. Ling Liu, who ably served as the next EIC. TSC continues to build on the solid foundations they have laid.

In the year since I became the EIC, I have learned a lot from my predecessors, the TSC Editorial Board members, the TSC Executive Advisory Board (EAB), the IEEE support staff and other colleagues from the *Services Computing* community. I express my deep gratitude to all for their invaluable support and contributions. Below, I would like to briefly report on the status of TSC to our readers, authors, reviewers, the EB, the EAB, and the *Services Computing* community at large.

I am very happy to report that TSC has gained an Impact Factor (IF) of 3.520 and the 5-year IF of 4.245, both of which represent significant increases from the previous years. This further speaks to the global reputation of the journal and the amazing work done by the past EICs, all the current and past EB members, and reviewers - all of whom have volunteered their precious time despite their very busy schedule to support and contribute to the growth of this journal. I hope to count on your continued engagement for the future growth of this journal. Over this past year, several esteemed EB members have completed their terms of service to TSC after serving for several years. On behalf of the *Services Computing* community and the TSC EAB, I would like to thank the following Associate Editors who retired from TSC EB in 2017 for their invaluable service and contributions to the journal: Dr. Elisa Bertino (Purdue University, USA), Dr. Paolo Bellavista (Università di Bologna, Italy) Dr. Carl K. Chang (Iowa State University, USA), Dr. Robert van Engelen (Florida State University, USA), Dr. Eleni Stroulia (University of Alberta, Canada), Dr. Padmal Vitharana (Syracuse University), and Dr. J. Leon Zhao (City University of Hong Kong).

The number of submissions to TSC continues to grow. In order to fill the positions left by outgoing AEs, to address the need to handle increasing number of submissions in a timely fashion, and to further diversify the composition of the EB, I have been recruiting distinguished colleagues to join the TSC EB. I have been very fortunate to have the following colleagues kindly join the EB: Victor Bahl (Microsoft Research, USA), Barbara Carminati (University of Insubria, Italy), James Caverlee (Texas A&M University, USA), Ing-Ray Chen (Virginia Tech, USA), Wynne Hsu (National University of Singapore, Singapore), Toru Ishida (Kyoto University, Japan), Valerie Issarny (Inria, France), Surya Nepal (Data61/CSIRO, Australia), Indrakshi Ray (Colorado State University, USA), Kui Ren (SUNY, Buffalo, USA), Shamik Sural (IIT Kharagpur, India), and Mei-Ling Shyu (University of Miami, USA). The TSC EB currently has 50 AEs that include 11 IEEE Fellows, one ACM Fellow, three AAAS Fellows and one member of the Academy of Europe. The bios and photos of the new AEs are included below. On behalf of the TSC EAB and EB, and the *Services Computing* community, I would like to again extend a warm welcome to all the new AEs.

Dr. Rong Chang has kindly agreed to continue as the Associate EIC for TSC. I have benefited greatly from his prior experience and am thankful to him for managing the special issues. Dr. Ling Liu, former EIC of TSC, has kindly agreed to join the EAB as its co-chair. The EAB currently includes the following members: Dr. Liang-Jie Zhang (Chair), Dr. Ling Liu (Co-Chair), Dr. Elisa Bertino, Dr. Ephrain Feig, Dr. Hemant Jain, and Dr. Stephen Yau. I am also pleased to announce that TSC is participating in a free trial offering of the new IEEE DataPort data repository. This service supports the authors in hosting and referring to their datasets during the article submission process. This service will help authors expose their data-driven research to a broader audience, provide support for long-term storage and accessibility of authors’ datasets, and help reviewers in their evaluation of submitted articles. I encourage all authors to avail themselves of this opportunity and send us their feedback. More information about IEEE DataPort is available at: https://www.computer.org/cms/Computer.org/transactions/IEEE_DataPort_Trial.pdf.

Overall, I am very proud of the success that TSC has achieved in 2017. This would not have been possible without the continued support of the authors, readers, reviewers, TSC EAB, TSC EB, and the staff of IEEE and IEEE Computer Society, especially Ms. Christine Shaughnessy and Ms. Erin M. Espriu. I look forward to exploring ways to further enhance the reputation and impact of our journal. I would love to hear your suggestions and comments, and I hope to have your continued support.
Victor Bahl is a distinguished scientist and the director of mobility & networking in Microsoft Research. He is a member of the global leadership team overseeing MSR’s world-wide operations. In these roles he works on matters related to the health and vibrant functioning of our domestic and international Labs and advises Microsoft’s CEO and senior leadership team on long-term vision and strategy related to networked systems, mobile computing, wireless systems, cloud computing, and datacenter networking. He has published more than 125 scientific papers, authored more than 140 patents, and won numerous technical and leadership awards including a test-of-time award, three best paper awards, two awards from the United States FCC, distinguished service and lifetime technical achievement awards from ACM SIGMOBILE, distinguished alumni award and an IEEE outstanding leadership award. Over his career he has developed seminal technologies including streaming video analytics (2015), white space networking (2010), edge-based cloud computing (2009), mesh networking (2005), multi-radio wireless systems (2001), Wi-Fi hot-spots (2000), and indoor localization systems (1999). Under his direction his group has had game changing impact on Microsoft’s Cloud Computing Infrastructures both in the datacenter and in wide-area networking. He is the founder of ACM SIGMOBILE, MobiSys and several other conferences. He is a fellow of the ACM, IEEE, and AAAS. Also, with his wife he co-founded Computing For All, a 501(c)(3) non-profit dedicated to increasing and enhancing computer science education for students of all ages and from all backgrounds.

Barbara Carminati is an associate professor in computer science with the University of Insubria, Italy. Her main research interests include security and privacy for innovative applications, like XML data sources, semantic web, data outsourcing, web service, data streams and social networks. On these topics she has published more than 100 publications in international journals and conference proceedings. She has been involved in several research projects, funded by the Italian Ministry of Education, University and Research, and European Union. She has been the PI of “Dynamic Information Management and Exchange for Command and Control Applications” project (2010-2012) and of “Cloud-based framework for information sharing in emergency situations” project (2012-2014), both funded by European Office of Aerospace Research and Development (EOARD). From January 2009 to March 2015, she has been the editor in chief of the Computer Standards & Interfaces journal, Elsevier press. Since 2015, she has been an associate editor for the IEEE Transactions on Dependable and Secure Computing Journal. She has been extensively involved in the organization of conferences related to security and privacy topics, among which, she has served as program chair of the ACM SACMAT, NSS, APSCC, CollaborateCom, IEEE CIC, etc.

James Caverlee received the BA degree (magna cum laude) in economics from Duke University, in 1996, the MS degrees in engineering-economic systems & operations research and in computer science from Stanford University, in 2000 and 2001, respectively, and the PhD degree from the Georgia Tech, in 2007. He is an associate professor in the Department of Computer Science and Engineering, Texas A&M University. His research interests include web-scale information management, distributed data-intensive systems, and social computing. He is a recipient of the Defense Advanced Research Projects Agency (DARPA) Young Faculty Award, the Air Force Office of Scientific Research (AFOSR) Young Investigator Award, and an NSF CAREER Award.

Ing-Ray Chen received the BS degree from the National Taiwan University, and the MS and PhD degrees in computer science from the University of Houston. He is a professor in the Department of Computer Science, Virginia Tech. His research interests are primarily in service and trust management as well as reliability and performance analysis of mobile systems and wireless networks, including internet of things, wireless sensor networks, service-oriented peer-to-peer networks, ad hoc networks, mobile social networks, mobile web services, mobile cloud services, and cyber physical systems. He has published more than 100 journal papers with more than one third of them appearing in IEEE Transactions journals. He has served as an AE for the IEEE Transactions on Knowledge and Data Engineering, the IEEE Communications Letters, and the IEEE Transactions on Network and Service Management. He is a recipient of the 2015 IEEE Communications Society William R. Bennett Prize in the field of Communications Networking, and a recipient of the 2016 Army Research Laboratory Publication Award.

Wynne Hsu received the BSc degree in computer science with the National University of Singapore and the MSc and PhD degrees in electrical engineering from Purdue University, West Lafayette, in 1989 and 1994, respectively. She is currently a provost’s chair professor in the Department of Computer Science, School of Computing, National University of Singapore (NUS). Her research interests include data analytics and knowledge discovery in the context of social networks, spatio-temporal databases, XML databases as well as medical image analysis. She is a recipient of President’s Technology Award (PTA), a national award in Singapore.

Toru Ishida has been a professor with Kyoto University, since 1993. Before that, he was a research scientist in NTT Laboratories from 1976 to 1993. His academic background includes visiting scientist/professor positions with Columbia University, Technische Universität Muenchen, Université Pierre et Marie Curie, University of Maryland, Shanghai Jiao Tong University, Tsinghua University, Xinjiang University and Hong Kong Baptist University. He is a co-founder of the Department of Social Informatics, Kyoto University, and recently organized the Kyoto University Design School. His research interest include autonomous agents and multi-agent systems and modeling collaboration within human societies. He contributed to create AAMAS/ICMAS/PRIMA conferences on Autonomous Agents and Multi-Agent Systems. His projects include Community Computing, Digital City, Intercultural Collaboration, and the Language Grid.
Valérie Issarny is a "director of research" position with Inria, the French institute for research in Information and Communication Science and Technologies, where she led the ARLES research team until 2013, investigating distributed software systems leveraging wirelessly networked devices, with a special emphasis on service-oriented systems. Her research interests include in the study of middleware solutions easing the development of distributed collaborative services, including mobile services deployed over smartphones and interacting with sensors and actuators. She has published more than 200 technical papers in the area of distributed systems and software engineering. She is regular Program Committee member of leading international conference on distributed systems and software engineering, including PC chair of Middleware’2008 and ESEC/FSE’2009, as well as PC co-chair of the New ideas track at ESEC/FSE’2015 and of the SEIS track at ICSE’2018. She was an associate editor for the ACM Computing Surveys Journal for the software engineering area from 2007 to 2011. She is serving on the editorial board of the IEEE Transactions on Software Engineering. Since summer 2013, she is the scientific coordinator of the Inria@SiliconValley program (https://project.inria.fr/siliconvalley/) promoting and fostering collaboration between Inria and California universities. She is also coordinating the CityLab@Inria research program (http://citylab.inria.fr/) dedicated to the study of urban software systems promoting citizen engagement; the program is developed in collaboration with CITRIS at University of California Berkeley and targets urban-scale experiment in Paris and California cities. Ongoing projects include UrbanCivics/Ambiciti on urban pollution monitoring through participatory sensing and crowd sourcing, and ApoCivist on a middleware platform for democratic assembly and collective actions.

Surya Nepal received the BE degree from National Institute of Technology, Surat, India, in 1993, the ME degree from Asian Institute of Technology, Bangkok, Thailand, in 1997, and the PhD degree from RMIT University, Australia, in 2000. He is a principal research scientist at CSIRO Data61. He leads a distributed systems security group at CSIRO Data61 comprising 10 research staff and over 20 PhD students. He has been working at CSIRO since 2000. His main research interest is in the development and implementation of technologies in the area of distributed systems including Web Services, Cloud Computing, Social Computing, Internet of Things and Big Data, with a specific focus on security, privacy and trust. At CSIRO, he undertook research in the area of multimedia databases, web services and service oriented architectures, social networks, and security, privacy and trust in collaborative environment and cloud systems, big data platforms, social computing and internet-of-things. He has more than 150 publications to his credit. Many of his works are published in top international journals and conferences such as VLDB, ICDE, ICWS, SCC, CoopIS, ICSOC, the IEEE Transactions on Parallel and Distributed Processing, the ACM Transaction on Internet Technology and the ACM Computing Survey. He is a co-inventor of 3 patents and has edited three books including “Security, Privacy and Trust in Cloud Systems”. He has edited special issues for international journals including Springer WWW Journal, the IEEE Transactions on Service Computing, the ACM Transactions on Internet Technology, etc. He serves as program chair and program committee member in many international conferences and workshops. He has also delivered talks/tutorials/keynotes on trusted distributed systems in national and international avenues.

Indrakshi Ray received the PhD degree in information technology from George Mason University. She is a professor in Computer Science Department, Colorado State University and the director of NSF I/UCRC Center for Cybersecurity Analytics and Automation (http://c2aa.colostate.edu). She has been a visiting faculty at Air Force Research Laboratory, Naval Research Laboratory, and at INRIA, Rocquencourt, France. She research interests include security and privacy, database systems, and formal methods for software assurance. She has published more than hundred technical papers in refereed journals and conference proceedings with the support from agencies including Air Force Research Laboratory, Air Force Office of Scientific Research, National Institute of Health, National Institute of Standards and Technology, National Science Foundation, and the United States Department of Agriculture. She is on the editorial board of the IEEE Transactions on Dependable and Secure Computing and Computer Standards and Interfaces. She has been a guest editor of the ACM Transactions on Information Systems Security and the Journal of Digital Library. She was the program chair of ACM SACMAT 2006, program co-chair for ICISS 2013, CSS 2013, IFIP DBSec 2003, and general chair of SACMAT 2008. She has served on the program committees of various conferences including ACM SACMAT, DBSec, EDBT, ESORICS, ICDE, and VLDB. She is a senior member of the IEEE and a member of the ACM.

Kui Ren received the PhD degree from Worcester Polytechnic Institute. He is a professor of computer science and engineering and the director of UbiSec Lab with State University of New York at Buffalo (UB). His current research interest include cloud & outsourcing security, wireless & wearable systems security, and mobile Sensing & crowdsourcing. His research has been supported by NSF, DoE, AFRL, MSR, and Amazon. He received UB Exceptional Scholar Award for Sustained Achievement in 2016, UB SEAS Senior Researcher of the Year Award in 2015, Sigma Xi/IIT Research Excellence Award in 2012, and NSF CAREER Award in 2011. Kui has published extensively in peer-reviewed journals and conferences and received several Best Paper Awards including IEEE ICNP 2011. According to Google Scholar, his total citation exceeds 16,000, and his h-index is 50. He currently serves as an associate editor for the IEEE Transactions on Dependable and Secure Computing, the IEEE Transactions on Mobile Computing, the IEEE Wireless Communications, and the IEEE Internet of Things Journal. He is a fellow of the IEEE, a distinguished lecturer of the IEEE, a member of the ACM, and a past board member of Internet Privacy Task Force, State of Illinois.

Shamik Sural is currently a full professor in the Department of Computer Science and Engineering, IIT Kharagpur, India. Prior to joining the institute as an assistant professor, in 2002, he worked in the information technology industry for more than ten years. During his tenure in the industry between 1992-2002, which includes several years in India and a couple of years in Lansing, Michigan, he has designed and developed information systems using various technologies – both front end integrated development environments (IDEs) as well as backend databases. Besides design and development, he has also managed large projects using software development processes that are ISO 9001 certified and assessed at SEI CMM Level 5. After joining the academia, he has contributed to the fields of computer security and multimedia systems. He has published more than 180 research papers in reputed international journals and conferences in these areas with some of his papers receiving more than 100 citations. Specifically, he has explored the problems of multimedia data modeling, security analysis for Role based Access Control (RBAC) and its variants, role mining, organizational resource optimization in the presence of various access control systems, Attribute based Access Control (ABAC), inter-cloud policy mining under ABAC and developing RBAC as a service.
Mei-Ling Shyu received the three master’s degrees in computer science, electrical engineering, and restaurant, hotel, institutional, and tourism management, and the PhD degree from the School of Electrical and Computer Engineering all from Purdue University, West Lafayette, IN. She has been an associate chair and a full professor in the Department of Electrical and Computer Engineering, University of Miami since October 2013 and June 2013, respectively. Prior to that, she was an associate/assistant professor in Department of Electrical and Computer Engineering, University of Miami from January 2000. She has authored and co-authored two books and more than 260 technical papers published in various prestigious journals, book chapters, and refereed conference proceedings. She was awarded the 2012 IEEE Computer Society Technical Achievement Award and the ACM 2012 Distinguished Scientists Award. She received the Best Paper Awards and Best Student Paper Award, in 2016, 2014, 2013, 2012, and 2009 (all from IEEE conferences), the Excellence in Research Journal Award from IGI Global in 2016 and 2011, and the Excellence in the Research and Application of Advanced Computing and Internet Technologies to Further NOAA’s Service to the Nation Metadata Management Award from NOAA TECH 2004. She serves/served as an associate editor for several journals including the IEEE Transactions on Human-Machine Systems and the IEEE Transactions on SMC-Part C: Applications and Reviews, and on the editorial board of many other journals. She has been a guest editor of many journal special issues, a program chair/vice chair of more than 45 IEEE and ACM international conferences, symposiums, and workshops, and a member of organizing committees and technical program committees for more than 200 international meetings. She is the chair of IEEE Computer Society Technical Committee on Multimedia Computing (TCMC), a member of the IEEE SMC Society Technical Committee on Knowledge Acquisition in Intelligent Systems, and a Steering Committee member (representing Computer Society) of the IEEE Transactions on Multimedia and of the IEEE International Conference on Multimedia and Expo. She is a fellow of SIRI.