

# EIC Editorial

Jian Pei

As the number of submissions to the *IEEE Transactions on Knowledge and Data Engineering (TKDE)* and the diversity in topics keep increasing, *TKDE* needs fresh blood and strong hands. I am pleased to officially welcome the 13 associate editors who just joined the editorial board: Drs. Leman Akoglu, Hongrae Lee, Justin Levandoski, Xuelong Li, Rosa Meo, Carlos Ordonez, Jeff Philips, Barbara Poblete, K. Selçuk Candan, Meng Wang, Jirong Wen, Li Xiong, and Wenjie Zhang. This group of newly appointed associate editors are established and active working experts in the wonderful wide spectrum of knowledge and data engineering. Moreover, they are very committed and dedicated to serving the community and handling the review processes, as testified by their rich experience. Their biographies and photos are provided below.

At the same time, I want to sincerely thank Drs. Shivnath Babu, Sanjay Chawla, Xiaofei He, Daxin Jiang, Ruoming Jin, and Evaggelia Pitoura, who just retired from the editorial board of *TKDE*, for their significant contributions to the journal and the knowledge and data engineering community.

Jian Pei  
Editor-in-Chief



**Leman Akoglu** received the PhD degree from the Computer Science Department, Carnegie Mellon University, in 2012. She is an assistant professor in the Department of Computer Science, Stony Brook University. She also spent summers at IBM T. J. Watson Research Labs and Microsoft Research, Redmond, WA. Her research interests span a wide range of data mining and machine learning topics with a focus on algorithmic problems arising in graph mining, pattern discovery, social and information networks, and especially anomaly mining; outlier, fraud, and event detection. Her research has won four publication awards: Best Research Paper at SIAM SDM 2015, Best Paper at ADC 2014, Best Paper at PAKDD 2010, and Best Knowledge Discovery Paper at ECML/PKDD 2009. She also holds three US patents filed by IBM T. J. Watson Research Labs. She received the US NSF CAREER award (2015) and Army Research Office Young Investigator award (2013). Her research is currently supported by the National Science Foundation, the US Army Research Office, DARPA, a gift from Northrop Grumman Aerospace Systems, and a gift from Facebook. More details can be found at <http://www.cs.stonybrook.edu/~leman>.



**Hongrae Lee** received the BS and MS degrees from Seoul National University, and the PhD degree in computer science from the University of British Columbia. He is a senior research scientist at Google, Inc. At Google, he has worked on Google Fusion Tables, Web tables, application of Web tables in Google Search and question answering systems. His research interest and experience spans column-oriented store, in-memory database, spatial data handling, data mining, knowledge base systems, extracting, and querying information from the Web.



**Justin Levandoski** is a researcher in the database group at Microsoft Research. He is interested in a broad range of topics dealing with large-scale data management systems, including main-memory databases, database support for new hardware platforms, transaction processing, and cloud computing. He has published a number of papers on varying topics in top data management conferences and journals, including a best of conference citation at ICDE 2012. He has also served as program committee area chair for both SIGMOD and ICDE. His research has been commercialized in a number of Microsoft products, including the SQL Server Hekaton main-memory database engine, Azure DocumentDB, and Bing.

For information on obtaining reprints of this article, please send e-mail to: [reprints@ieee.org](mailto:reprints@ieee.org), and reference the Digital Object Identifier below.  
Digital Object Identifier no. 10.1109/TKDE.2016.2592658



**Xuelong Li** (M'02-SM'07-F'12) received the BEng and PhD degrees from the University of Science and Technology of China (USTC) with the President Award of CAS, and the postgraduate certificate from the University of London. He is a National Distinguished chair with the Chinese Academy of Sciences (CAS). He is a vice director of Xi'an Institute of Optics and Precision Mechanics (XIOPM) of CAS, where he founded the Center for OPTical IMagery Analysis and Learning (OPTIMAL), and he is also an associate director of The State Key Lab of Transient Optics & Photonics and an associate director of the CAS Key Lab of Spectral Imaging Technology. He has more than 200 publications in IEEE/ACM transactions. As a Thomson Reuters ESI Highly Cited Researcher, he has IEEE/ACM Best Paper Awards/Finalists, Thomson Reuters Science Watch Hot Papers, and featured/most-accessed/most-downloaded articles. For example, in 2015, the IEEE MultiMedia Best Paper Award and the IEEE ICDM 10-Year Highest Impact Paper Award in 2014. He was/is an editor of more than 30 IEEE/ACM/Elsevier/Springer/World-Scientific journals, including the *Pattern Recognition* (Elsevier), the *Computer Vision and Image Understanding* (Elsevier), the *ACM Transactions on Intelligent Systems and Technology*, the *IEEE Transactions on Knowledge and Data Engineering*, the *IEEE Transactions on Image Processing*, the *IEEE Transactions on Circuits and Systems for Video Technology*, the *IEEE Transactions on Cybernetics*, the *IEEE Transactions on Systems, Man and Cybernetics, Part B: Cybernetics*, the *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, the *IEEE Transactions on Industrial Electronics*, the *IEEE Transactions on Cognitive and Developmental Systems*, the *IEEE Transactions on Neural Networks and Learning Systems*, etc. He served as a program committee member of international conferences more than 350 times, and as a chair more than 70 times, e.g., recently as a program committee chair of the 2014 IEEE International Conference on Multimedia & Expo (IEEE ICME) and a technical program chair of the 2nd IEEE China Summit & International Conference on Signal and Information Processing (IEEE ChinaSIP). He is a fellow of the Institute of Electrical and Electronic Engineers (IEEE), the Institution of Engineering and Technology (IET), the International Society of Optics and Photonics (SPIE), the Optical Society of America (OSA), the British Computer Society (BCS), the UK Institute of Physics (IOP), and the International Association of Pattern Recognition (IAPR).



**Rosa Meo** is an associate professor in the Computer Science Department, University of Torino, Italy. She is the scientific director of the post-graduate master's program in data analysis and business intelligence at the same university. She teaches courses in data analysis and machine learning, data mining, information systems, and databases. Her research interests include data mining and machine learning, with particular attention to knowledge extraction from data by specialized database query languages (inductive databases), supervised and unsupervised techniques (clustering and co-clustering on many dimensions), anomaly and fraud detection, analysis of spatio-temporal trajectories, summaries generation from spatial data, social data and crowd-sourcing, and collaborative recommendations. She served as co-chair at ECML-PKDD in 2014. She is also an associate editor of *Knowledge and Information Systems* (Springer).



**Carlos Ordonez** received the BSc degree in applied mathematics and the MS degree in computer science from UNAM, Mexico. He received the PhD degree from the Georgia Institute of Technology, advised by Edward Omiecinski, in extending database systems with data mining algorithms in 2000. He worked at Teradata (formerly part of NCR) from 1998 to 2006, collaborating in the optimization of machine learning and cube algorithms to work on the Teradata parallel DBMS. In 2006, he joined the Department of Computer Science, University of Houston, where he currently leads the DBMS lab. Since 2013, he has been collaborating with Michael Stonebraker, regularly visiting the Database Group at MIT. From July 2014 to July 2015, he was a visiting researcher at ATT Labs (formerly ATT Bell Labs), where he worked on stream analytics. His research has been funded by the US National Science Foundation.



**Jeff Phillips** received the undergraduate degree in computer science and in math from Rice University, in 2003, and the PhD degree in computer science (focusing on algorithms, data mining, and computational geometry) from Duke University in 2009, while on an US NSF Graduate Research Fellowship. He is an assistant professor in the School of Computing, University of Utah. He works on large-scale algorithms and geometric data analysis. He is the director of the data management and analysis track within the school, which oversees all data science related educational programs related to computing at the university. He is supported by several US National Science Foundation grants, including an US National Science Foundation CAREER Award. Before being on the faculty, he was on a 2-year US National Science Foundation Computing Innovations Postdoctoral Fellowship also at the University of Utah.



**Barbara Poblete** received the BSc, MEng, and MSc degrees from the University of Chile and the PhD degree in October 2009, from the University Pompeu Fabra, Barcelona, Spain, under the supervision of Dr. Ricardo Baeza-Yates and Dr. Myra Spiliopoulou. She is an assistant professor in the Computer Science Department, University of Chile. She worked for eight years at Yahoo! Labs, first as a long-term PhD intern in Barcelona and then as a researcher in the Lab in Santiago. She is currently a head of the PRISMA research group and she is also a young researcher at the Center for Semantic Web Research. Her research interests are in the areas of web data mining, social network analysis, computational sociology, and information retrieval on the web. She is a PC member of the conferences SIGIR, CIKM, WSDM, ICWSM, ECIR, ICTIR, and IAAA and reviewer for the journals the *ACM Transactions on the Web*, *COMSUR*, the *Knowledge and Information Systems*, the *Applied Soft Computing*, among others. Her work on time-sensitive credibility in microblogging platforms, published at the World Wide Web Conference (2011) and in the *Internet Research* journal (2013), was the first on this particular topic, and has been featured in mainstream media such as *Scientific American Magazine*, the *Wall Street Journal*, *Slate Magazine*, the Huffington

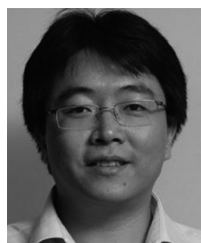
Post, BBC News, and NPR. In 2013, she was selected as one of Chile's 100 Young Leaders under 35 by *El Mercurio*, Chile's most influential newspaper. In addition, she is the organizer and co-founder of the annual Celebration of Women in Computing in Chile, which has recently been selected as an ACM-W chapter for Chile, and a senior member of Latinas in Computing.



**K. Selçuk Candan** is a professor of computer science and engineering at Arizona State University (ASU) and ASU's Center for Assured and Scalable Data Engineering (CASCADE). He has published more than 170 journal and peer-reviewed conference articles, one book, and 16 book chapters. He has nine patents. He served as an associate editor for the *Very Large Databases (VLDB)* journal. He is also on the editorial boards of the *ACM Transactions on Database Systems*, the *IEEE Transactions on Knowledge and Data Engineering*, the *IEEE Transactions on Cloud Computing*, the *IEEE Transactions on Multimedia*, and the *Journal of Multimedia*. He also serves on the review board of the *Proceedings of the VLDB Endowment (PVLDB)*. He has served in the organization and program committees of various conferences. In 2006, he served as an organization committee member for SIGMOD'06, the flagship database conference of the ACM. In 2008, he served as a PC Chair for another leading, flagship conference of the ACM, this time focusing on multimedia research (MM'08). More recently, he served as a program committee group leader for ACM SIGMOD'10. In 2011, he served as a general co-chair for the ACM MM'11 conference. In 2012, he served as a general co-chair for ACM SIGMOD'12. In 2015, he served as a general co-chair for the IEEE International Conference on Cloud Engineering (I2CE). He has successfully served as the PI or co-PI of numerous grants, including from the US National Science Foundation, Air Force Office of Research, Army Research Office, Mellon Foundation, and HP Labs. He also served as a visiting research scientist at NEC Laboratories America for more than 10 years. He is a member of the executive committee of ACM SIGMOD and an ACM Distinguished Scientist. You can find more information about his research and an up-to-date resume at <http://aria.asu.edu/candan>.



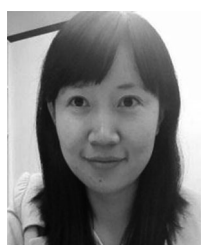
**Meng Wang** received the BE and PhD degrees from the Special Class for the Gifted Young and the Department of Electronic Engineering and Information Science, University of Science and Technology of China (USTC), Hefei, China, in 2003 and 2008, respectively. He is a professor at the Hefei University of Technology, China. His current research interests include media data mining, search, recommendation, and large-scale computing. He has authored more than 200 book chapters and journal and conference papers in these areas. He received paper awards from ACM MM 2009 (Best Paper Award), ACM MM 2010 (Best Paper Award), MMM 2010 (Best Paper Award), ICIMCS 2012 (Best Paper Award), ACM MM 2012 (Best Demo Award), ICDM 2014 (Best Student Paper Award), PCM 2015 (Best Paper Award), SIGIR 2015 (Best Paper Honorable Mention), and IEEE TMM 2015 (Best Paper Honorable Mention). He received the ACM SIGMM Rising Star Award 2014.



**Ji-Rong Wen** received the PhD degree from the Institute of Computing Technology, Chinese Academy of Science, in 1999. He is a professor and deputy dean in the School of Information, Renmin University of China (RUC). He is also the director of the Beijing Key Laboratory of Big Data Research. His main research interests include data management & analytics, information retrieval, data mining, and machine learning. Since then, he joined Microsoft Research Asia (MSRA) as a researcher. In 2008, he was a senior researcher and group manager of the Web Search and Mining Group at MSRA. He was elected as a National "1000 Talents Project" Expert and joined RUC in 2013. He has published more than 100 referred papers and the papers are widely cited (<http://scholar.google.com/citations?user=tbxCHJgAAAAJ&hl=en>). In his 14 years at MSRA, he has filed 50+ US patents in Web search and related areas. Many of his research results have been integrated into important Microsoft products (e.g., Bing). He and his group have developed influential Web applications such as Microsoft Academic Search (<http://academic.research.microsoft.com>) and EntryCube (<http://entrycube.research.microsoft.com>).



**Li Xiong** received the BS degree in computer science from the University of Science and Technology of China, the MS degree in computer science from Johns Hopkins University, and the PhD degree in computer science from the Georgia Institute of Technology. She is a Winship Distinguished research professor of Computer Science (and Biomedical Informatics) at Emory University. She and her research group, Assured Information Management and Sharing (AIMS), conduct research that addresses both fundamental and applied questions at the interface of data privacy and security, spatiotemporal data management, and biomedical informatics. She has published more than 100 papers in peer reviewed journals and conferences in these areas, with three best paper awards. She received a Woodrow Wilson Fellowship and industry awards from Google, Cisco, and IBM. Her research is supported by US National Science Foundation, NIH, AFOSR (Air Force Office of Scientific Research), and PCORI (Patient-Centered Outcomes Research Institute).



**Wenjie Zhang** received the PhD degree in computer science and engineering from the University of New South Wales, in 2009. She is currently a senior lecturer in the School of Computer Science and Engineering, University of New South Wales, Australia. Her research interests include spatial-temporal data analysis, uncertain data analysis, and graph data processing. Since 2008, she has published more than 50 papers in the *IEEE Transactions on Knowledge and Data Engineering*, the *IEEE Transactions on Database Systems*, the *VLDB Journal*, the ACM Special Interest Group on Management of Data, the Very Large Data Bases conference, and the International Council for Open and Distance Education. In 2011, she received the Australian Research Council Discovery Early Career Researcher Award. Since 2012, her research has been well supported by four Australian Research Council grants and one UNSW academic start-up fund, which has totaled \$1.5 million.