EIC Editorial

Jian Pei

THE landscape of the general area of knowledge and data engineering keeps evolving quickly. We are facing many phenomenal dynamic challenges and opportunities. As the flagship journal in this area, *IEEE Transactions on Knowledge and Data Engineering* (*TKDE)* just launched a new initiative of a series of vision and position articles about strategic research and development directions and opportunities written by leaders in related areas. The first article in this series, titled "Federation in Cloud Data Management: Challenges and Opportunities", by G. Chen, H.V. Jagadish, D. Jiang, D. Maier, B.C. Ooi, K-L. Tan, and W-C Tan, is published in this issue. We hope to have about two-three such articles every year. We welcome your comments and suggestions about the possible topics and contributors.

I want to sincerely thank the 10 associate editors who completed their terms in the first half of 2014: Drs. C. Böhm, G. Cormode, J. Freire, G. Karypis, H. Kitagawa, N. Mamoulis, G. Miklau, J. Sander, S. Sudarshan, and Yufei Tao. Their significant contributions to the quality and reputation of *TKDE* have benefited many authors, readers, and reviewers. At the same time, I want to officially welcome the 11 associate editors who joined the editorial board in the first half of 2014: Drs. A. Banerjee, L. Holder, D. Jiang, G. Li, F. Silvestri, W. Wang, J. Xu, S. Yan, J. Ye, and X. Zhu. Particularly, Dr. X. Zhu has been kind enough to rejoin the *TKDE* editorial board after he retired from his first service several years ago. This group of newly appointed associate editors represents our interest and determination in recruiting the most 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. As always, on behalf of the *TKDE* editorial board and the editorial office, I thank all of the authors and readers for your enthusiastic support. We look forward to continuing to serve you to the best in the future.

Jian Pei
Editor-in-Chief

Arindam Banerjee is an associate professor in the Department of Computer and Engineering and a Resident fellow at the Institute on the Environment at the University of Minnesota, Twin Cities. His research interests include machine learning, data mining, convex analysis and optimization, and their applications in complex real-world problems including text analysis, recommendation systems, climate sciences, ecology, finance, bioinformatics, and social network analysis. He has won several awards, including the IBM Faculty Award (2013), the Yahoo Faculty Research Engagement Program Award (2013), the US National Science Foundation (NSF) CAREER Award (2010), the McKnight Land-Grant Professorship at the University of Minnesota, Twin Cities (2009-2011), the IBM PhD fellowship (2003-05), and five Best Paper Awards in top-tier conferences.

Larry Holder is a professor in the School of Electrical Engineering and Computer Science at Washington State University (WSU). Before joining WSU in 2006, he was a professor in the Department of Computer Science and Engineering at the University of Texas at Arlington from 1991-2006. He received his PhD degree in computer science from the University of Illinois at Urbana-Champaign in 1991. His research interests include artificial intelligence, machine learning, data mining, graph theory, and algorithms with applications ranging from security to biology. Most recently, he has focused on developing graph mining algorithms for supervised and unsupervised learning in graph streams. He has over 150 publications in these areas and has led several projects funded by US NSF, DHS, DOD, and NASA. He is director of the WSU Smart Environments Research Center and co-director of the WSU Artificial Intelligence Laboratory. He is also an associate editor for the journals *Computing, Intelligent Data Analysis*, and *Social Network Mining*. He is a senior member of the ACM and the IEEE.

Daxin Jiang received the BS and PhD degrees in computer science from the University of Science and Technology of China and the State University of New York at Buffalo, respectively. He is currently the principal development manager at Microsoft Bing. Before joining Bing, he was a lead researcher at Microsoft Research Asia. From 2005-2006, he was a tenure-track assistant professor in the School of Computing Engineering at Nanyang Technological University, Singapore. His research interests include web data mining, large-scale machine learning, and information retrieval. In particular, he is interested in developing search applications using massive web and log data. He published extensively in journals such as the *IEEE Transactions on Knowledge and Data Engineering*, *IEEE Transactions on Knowledge Discovery from Data, ACM Transactions on Intelligent Systems and Technology*, *ACM Transactions on the Web*, and conferences such KDD, SIGIR, WWW, and WSDM. He received the Best Application Paper Award at KDD 2008 and was the runner-up for the Best Application Paper Award at KDD 2004. He has served as a reviewer for many journals and conferences.

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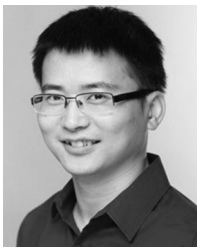
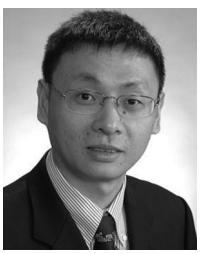
Guoliang Li received the bachelor's degree in computer science from the Harbin Institute of Technology in 2004 and the PhD degree in computer science from Tsinghua University in 2009. He is an associate professor in the Department of Computer Science, Tsinghua University, Beijing, China. His research interests include data cleaning and integration. He has published more than 80 papers in premier conferences and journals, such as SIGMOD, VLDB, ICDE, SIGKDD, SIGIR, *ACM Transactions on Database Systems*, *VLDB Journal*, and the *IEEE Transactions on Knowledge and Data Engineering*. He is a PC cochair of the 14th International Conference on Web-Age Information Management (WAIM 2014) and the 17th International Workshop on the Web and Databases (WebDB 2014). He has served on the program committees of many premier conferences, such as SIGMOD, VLDB, KDD, ICDE, and IJCAI. His papers have been cited more than 1,600 times. He received the IEEE TCDE Early Career Award, DASFAA'14 Best Paper Nominee Award, New Century Excellent Talents in University Award, Beijing Excellent Doctoral Dissertation Award, Nomination Award of National Excellent Doctoral Dissertation, and SCOPUS National Youth Science Star Award.

Fabrizio Silvestri received the PhD degree from the Computer Science Department at the University of Pisa in 2004. He is currently a senior researcher at Yahoo Labs in Barcelona, Spain. He has spent (under various roles) the nine years after at the ISTI institute of CNR in Pisa, Italy. His research interests mainly include web information retrieval with particular focus on efficiency related problems like caching, collection partitioning, and distributed IR in general. In his professional activities, he is a member of the program committee of many of the most important conferences in IR. He is the author of more than 100 publications in highly relevant venues spanning from distributed and parallel computing to IR and data mining related conferences. He has received (together with Ranieri Baraglia) the Best Web Intelligence 2004 Paper Award, and the ECIR 06 Best Paper Award. He is the author of a survey paper for the journal *Foundations and Trends in Information Retrieval*, and has given keynote speeches at IR and Data Mining conferences. He has been an organizer of various IR and Web Search conferences, and currently serves as one of the area chairs in the SIGIR conference series.



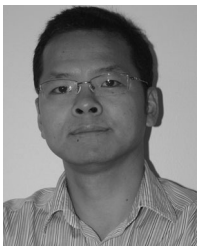
Wei Wang is an associate professor in the School of Computer Science and Engineering, The University of New South Wales, Australia. His current research interests include keyword search on (semi-) structured data, similarity query processing, high-dimensional indexing, and spatial databases. He has published more than 90 research papers in these areas, with many in premier journals and conferences. He has given tutorials at major conferences, organized and served on program committees for numerous international conferences and workshops.

Jianliang Xu received the BEng degree in computer science and engineering from Zhejiang University, Hangzhou, China, and the PhD degree in computer science from the Hong Kong University of Science and Technology. He is a professor in the Department of Computer Science at Hong Kong Baptist University (HKBU) and coleads the Database Research Group (http://www.comp.hkbu.edu.hk/~db). He held visiting positions at Pennsylvania State University and Fudan University. His research interests include data management, data security and privacy, mobile computing, and networked systems. He has published more than 120 technical papers in these areas, most of which appeared in the top conferences and journals such as SIGMOD, VLDB, ICDE, the *ACM Transactions on Database Systems*, the *IEEE Transactions on Knowledge and Data Engineering*, and *VLDB Journal*. He has been a program committee member for dozens of international conferences including SIGMOD, VLDB, ICDE, and WWW. He received the IEEE ICDE Outstanding Reviewer Award (2010) and HKBU Faculty Performance Award for Outstanding Young Researcher (2012). He was an executive committee member and vice chairman of the ACM Hong Kong Chapter.



Shuicheng Yan is currently an associate professor in the Department of Electrical and Computer Engineering at the National University of Singapore, and the founding lead of the Learning and Vision Research Group (http://www.lv-nus.org). His research areas include machine learning, computer vision, and multimedia, and he has authored/coauthored hundreds of technical papers over a wide range of research topics, with a Google Scholar citation $>$12,000 times and H-index 47. He has been serving as an associate editor of the *IEEE Transactions on Circuits and Systems for Video Technology* and the *ACM Transactions on Intelligent Systems and Technology*. He received the Best Paper Awards from ACM MM'13 (Best Paper and Best Student Paper), ACM MM'12 (Best Demo), PCM'11, ACM MM'10, ICME'10 and ICIMCS'09, the runner-up prize of ILSVRC'13, the winner prizes of the classification task in PASCAL VOC 2010-2012, the winner prize of the segmentation task in PASCAL VOC 2012, the honorable mention prize of the detection task in PASCAL VOC'10, 2010 TCSVT Best Associate Editor (BAE) Award, 2010 Young Faculty Research Award, 2011 Singapore Young Scientist Award, and 2012 NUS Young Researcher Award.

Jieping Ye received the PhD degree in computer science from the University of Minnesota, Twin Cities, in 2005. He is an associate professor of computer science and engineering at the Arizona State University (ASU). He is a core faculty member of the Bio-design Institute at ASU. His research interests include machine learning, data mining, and biomedical informatics. He has served as senior program committee/area chair/program committee vice chair of many conferences including NIPS, ICML, KDD, IJCAI, ICDM, SDM, ACML, and PAKDD. He is an associate editor of the *IEEE Transactions on Pattern Analysis and Machine Intelligence*. He received the US National Science Foundation (NSF) CAREER Award in 2010. His papers have been selected for the ICML Outstanding Student Paper in 2004, the KDD Best Research Paper honorable mention Mention in 2010, the KDD Best Research Paper nomination in 2011 and 2012, the SDM Best Research Paper runner up in 2013, and the KDD Best Research Paper runner up in 2013. He is a senior member of the IEEE.



Xingquan Zhu received the PhD degree in computer science from Fudan University, Shanghai, China. He is an associate professor in the Department of Computer and Electrical Engineering and Computer Science, Florida Atlantic University. Prior to that, he was with the Centre for Quantum Computation and Intelligent Systems, University of Technology, Sydney, Australia. His research mainly focuses on data mining, machine learning, and multimedia systems. Since 2000, he has published more than 170 refereed journal and conference papers in these areas. He is currently on the editorial boards of the *International Journal of Social Network Analysis and Mining*, *Journal of Big Data*, and *Network Modeling Analysis in Health Informatics and Bioinformatics Journal*. He is as a program committee cochair for the 14th IEEE International Conference on Bioinformatics and BioEngineering (BIBE-2014), and was the PC cochair for IEEE International Conference on Granular Computing (GRC-2013), 23rd IEEE International Conference on Tools with Artificial Intelligence (ICTAI-2011), and the Ninth International Conference on Machine Learning and Applications (ICMLA-2010). He also served as a conference cochair for ICMLA-2012. He is a senior member of the IEEE.