

Outgoing EIC Editorial

Beng Chin Ooi

I would like to thank the associate editors who have completed their term during 2012, Yixin Chen, Juergen Dix, Martin Ester, Sergio Greco, Eamonn Keogh, Vipin Kumar, Jianzhong Li, Qing Li, Yannis Papakonstantinou, V.S. Subrahmanian, Zhi-Hua Zhou, and Xingquan (Hill) Zhu, and I would like to formally welcome the associate editors who have joined the editorial board in 2012, Ashraf Aboulnaga, Divyakant Agrawal, Christian Böhm, Panos K. Chrysanthis, Bart Goethals, Xiaofei He, Gerome Miklau, Evaggelia Pitoura, Heng Tao Shen, Yufei Tao, Vincent Shin-Mu Tseng, and Ge Yu. *IEEE Transactions on Knowledge and Data Engineering (TKDE)* can only be as good as the editors and authors want it to be. I would like to thank the editors for their time and commitment in handling the review process, and the reviewers, authors, and readers for supporting the journal. I would also like to thank Pilar Hawthorne, Kathleen Henry, Andy Morton, and many others at the IEEE Computer Society Publications Office for their assistance and help for the last four years.

TKDE has improved over the years in terms of the quality of papers, turn around time, and the focus of the journal. The acceptance rate of papers remains around 17% and the turn around time is about 60 days. We continue to have the best papers of IEEE ICDE as a special issue of *TKDE*. I am thankful to the steering committee of ICDE for having such a working relationship and their support.

Jian Pei, who has been the Associate Editor-in-Chief for the past two years, will be taking over my role in January 2013. I am confident that he will continue to improve the quality of papers, improve the turn around time, and enhance the editorial board. I hope you will continue to support the journal.

Once again, I would like to thank all the associate editors, guest editors, reviewers, and authors for their hard work, understanding, and support in the past four years. Thanks very much.

Beng Chin Ooi
Outgoing-Editor-in-Chief



Ashraf Aboulnaga received the BS and MS degrees from Alexandria University, Egypt, and the MS and PhD degrees from the University of Wisconsin—Madison. He is an associate professor in the Cheriton School of Computer Science at the University of Waterloo. His research interests are in the area of database management, with a current focus on platforms for big data, cloud computing and virtualization, data integration on the web, and self-managing database systems. He was a research staff member at the IBM Almaden Research Centre in San Jose, California, from 2002 to 2004, and a visiting research scientist at Google Waterloo during his sabbatical, from December 2009 to June 2010. Dr. Aboulnaga is an IBM Centre for Advanced Studies Faculty Fellow and a recipient of a Google Research Award, the Ontario Early Researcher Award, and a Best Paper Award at the VLDB 2011 conference. His research results have been integrated into commercial products such as IBM DB2, and he serves on the advisory board of ClevrU. Dr. Aboulnaga is currently an associate editor for the Proceedings of the VLDB Endowment. He holds four US patents (one pending) and is a senior member of the IEEE and ACM.



Divyakant Agrawal is a professor of computer science at the University of California at Santa Barbara. His research expertise is in the areas of database systems, distributed computing, data warehousing, and large-scale information systems. From January 2006 through December 2007, Dr. Agrawal served as VP of Data Solutions and Advertising Systems at the Internet Search Company, ASK.com. While at ASK.com, Dr. Agrawal was the chief architect for building the next-generation business intelligence and data warehousing system at ASK.com. In addition, he developed revenue-sensitive products at ASK.com by applying data-mining and machine-learning technologies over ASK.com's historical data. Dr. Agrawal also serves as a visiting senior research scientist at the NEC Laboratories of America in Cupertino, California. During his professional career, he has served on the program committees of international conferences, symposia, and workshops and served as an editor of the Distributed and Parallel Databases journal from 1993 to 2008. Dr. Agrawal currently serves on the editorial boards of The VLDB Journal and the Proceedings of the VLDB. Dr. Agrawal's research philosophy is to work on data management problems that have both practical as well as theoretical significance. He has published approximately 300 research manuscripts in prestigious forums (journals, conferences, symposia, and workshops) on a wide range of topics related to data management and distributed systems. Dr. Agrawal is a fellow of the ACM and IEEE.

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Christian Böhm received the PhD degree in 1998 from the University of Munich, Germany. In 2001, he was appointed as a professor of computer science at UMIT, Innsbruck, Austria, and since 2003, he has been working as a professor of computer science at the University of Munich. His research interests include data mining and index structures for database systems, with particular focus on complex and mixed type data as well as on uncertainty aspects. He has published more than 100 papers including top venues like SIGMOD, SIGKDD, ICDM, and the *IEEE Transactions on Knowledge and Data Engineering*, and has received awards from SIGMOD 1997 (“best paper”), SDM 2008 (“honorable mention”), ICDM 2010 (“best paper”), and IGI Global 2010 (“Excellence in Research Journal Award”).



Panos K. Chrysanthis received the BS degree in physics with concentration in computer science in 1982 from the University of Athens, Greece, and the MS and PhD degrees in computer and information sciences in 1986 and 1991, respectively, from the University of Massachusetts at Amherst. He joined the Department of Computer Science at the University of Pittsburgh in 1991 and is currently a professor of computer science and the founding director of the Advanced Data Management Technologies Laboratory at the University of Pittsburgh. His lab has a broad focus on user-centric data management for scalable network-centric and collaborative applications and has fostered interdisciplinary collaborations between computer science, medicine, astronomy, and mechanical engineering, both within and outside the University of Pittsburgh. He is an adjunct professor at Carnegie Mellon

University and at the University of Cyprus, Cyprus. He has secured for his lab uninterrupted US National Science Foundation (NSF) research funding since 1991, complemented with additional highly competitive awards from NASA, CDC, and NIH. His research contributions in principles, algorithms, and prototypes to data management have been documented in more than 150 papers in top journals and prestigious, peer-reviewed conferences and workshops. In 1995, he received one of the first NSF CAREER Awards for his pioneer work on mobile data management, and in 2010, he was recognized as a Distinguished Scientist by the ACM. In 2007, he was also elevated to the level of a senior member of the IEEE. The impact of his work is also evident in his appointment to the editorial board of several journals, his selection as a general and program chair, and his invitations as a keynote speaker in conferences and workshops. He was invited to offer tutorials and contribute book chapters, and has organized and participated in NSF meetings. He has repeatedly served as a PC member in all major database/data management conferences and his work has appeared in textbooks. Finally, Professor Chrysanthis is committed to the educational mission of the University of Pittsburgh as evidenced by his six Computer Science Teaching Awards.



Bart Goethals is a professor in the Department of Mathematics and Computer Science at the University of Antwerp in Belgium. He leads the Data Mining lab of the Advanced Database Research and Modeling (ADReM) research group, which performs fundamental research on the structures, the basic properties and the power of languages, algorithms, and methodologies for processing and analysing large quantities of data. His primary research interests are the study of data mining techniques to efficiently find interesting patterns and properties in large databases. He received the IEEE ICDM 2001 Best Paper Award and the PKDD 2002 Best Paper Award for his theoretical studies on frequent itemset mining. He acted as organizer and program chair of several leading workshops and conferences in the field, such as ECML PKDD 2008, and SIAM DM 2010, and is general chair of

IEEE ICDM 2012. He was general chair of the ECML PKDD Steering Committee, and is currently associate editor of the *Data Mining and Knowledge Discovery Journal*, the *Knowledge and Information Systems Journal*, and editor-in-chief of the *ACM SIGKDD Explorations Newsletter*.



Xiaofei He received the MS and PhD degrees in computer science from The University of Chicago, in 2002 and 2005, respectively. Thereafter, he worked as a research scientist at Yahoo! Research Labs. He moved to Zhejiang University in 2007 as a full professor and he is now a professor of computer science at the same university. His research interests include machine learning, data mining, web search, and multimedia information retrieval. He has published more than 80 scientific articles in leading international journals and conference proceedings, and held five US patents. He has served on the program committees of more than 30 international conferences and workshops on data mining and machine learning. He is a member of the ACM and a senior member of the IEEE.



Gerome Miklau received the bachelor’s degree in mathematics and in rhetoric from the University of California, Berkeley, in 1995 and the PhD degree in computer science from the University of Washington in 2005. He is an associate professor at the University of Massachusetts, Amherst. His primary research interest is the secure management of large-scale data. This includes evaluating threats to privacy in published data, devising techniques for the safe publication of social networks, network traces, and audit logs, designing database management systems to implement security policies, and theoretically analyzing information disclosure. He received the ACM PODS Test of Time award in 2012, a Lilly teaching fellowship in 2011, a US National Science Foundation (NSF) CAREER Award in 2007, and the 2006 ACM SIGMOD Dissertation Award.



Evaggelia Pitoura received the diploma in computer engineering from the University of Patras, Greece, in 1990 and the MSc and PhD degrees in computer science in 1993 and 1995, respectively, from Purdue University. She is an associate professor and vice chair of the Department of Computer Science, University of Ioannina, Greece, where she also leads the Distributed Management of Data Lab. Her research interests are in distributed data management, with a recent focus on distributed overlays and ranking using preferences and diversity. Her publications include more than 100 articles in international journals and conferences and a highly-cited book on mobile computing. She has received a best paper award in ICDE in 1999 and a Marie Curie Fellowship in 2009. She is on the editorial board of *Parallel and Distributed Databases* (Elsevier) and an area editor for the *Encyclopedia of Database Systems*. Currently,

among others, she serves as PC cochair for ICDE 2012 and Demo PC cochair for VLDB 2012. In the past, she served on the organization or programming committees of many international conferences, including recently as a PC group leader for SIGMOD 2010, poster PC cochair for WWW 2010 and area chair for CIKM 2010. Her research has been funded by national and European resources.



Heng Tao Shen received the BSc degree with first class honors and PhD degrees from Department of Computer Science, National University of Singapore (NUS) in 2000 and 2004, respectively. He is a professor of computer science and an ARC Future Fellow in the School of Information Technology & Electrical Engineering (ITEE) at the University of Queensland (UQ). He joined the University of Queensland as a lecturer (June 2004-March 2007), a senior lecturer (April 2007-December 2009), a reader (January 2010-December 2011), and a professor (January 2012-present). His research interests include multimedia/mobile/Web search, database management, and P2P/cloud computing. He has published and served on program committees in many prestigious international conferences. He is the winner of Chris Wallace Award for outstanding Research Contribution in 2010 conferred by

Computing Research and Education Association, Australia.



Yufei Tao is a professor in the Department of Computer Science and Engineering, Chinese University of Hong Kong (CUHK). Before joining CUHK in 2006, he was a visiting scientist at Carnegie Mellon University during 2002-2003, and an assistant professor at the City University of Hong Kong during 2003-2006. He is currently also a visiting professor, under the World Class University (WCU) program of the Korean government, in the Division of Web Science and Technology, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea. He received a Hong Kong Young Scientist Award in 2002 from the Hong Kong Institution of Science. He regularly serves the programming committees of SIGMOD, VLDB, and ICDE. Currently, he is an associate editor of the *ACM Transactions on Database Systems (TODS)*, and the *IEEE Transactions on Knowledge and Data Engineering (TKDE)*. He

was the PC chair of the demonstration track in SIGMOD 2010, a PC cochair of International Symposium on Spatial and Temporal Databases (SSTD) 2011, an area PC chair of ICDE 2011, and a senior PC member of International Conference of Information and Knowledge (CIKM) in 2010, 2011, and 2012. His research mainly focuses on algorithms with nontrivial theoretical guarantees, particularly those dealing with massive data sets that do not fit in memory.



Vincent Shin-Mu Tseng received the PhD degree with a major in computer science from National Chiao Tung University, Taiwan, in 1997. He holds the position of distinguished professor in the Department of Computer Science and Information Engineering at National Cheng Kung University (NCKU), Taiwan. Before he joined NCKU in 1999, he was a postdoctoral research fellow in the Computer Science Division at the University of California at Berkeley between January 1998 and July 1999. He has served as the president of the Taiwanese Association for Artificial Intelligence since 2011 and acted as the director for Institute of Medical Informatics of NCKU between August 2008 and July 2011. Between February 2004 and July 2007, he also served as the director for the Informatics Center at National Cheng Kung University Hospital. He has a wide variety of research

interests covering data mining, biomedical informatics, multimedia databases, mobile and Web technologies. He has published more than 250 research papers in referred journals and international conferences. Dr. Tseng is on the editorial board of several journals including the *ACM Transactions on Knowledge Discovery from Data*, the *International Journal of Data Mining and Bioinformatics*, the *Journal of Information Science and Engineering*, and the *Taiwanese Journal of Medical Informatics* (Associate Editor-in-Chief). He has regularly served as chairs/program committee members for a number of major conferences related to data mining and database systems, including KDD, ICDM, SDM, PAKDD, ICDE, CIKM, WWW, DASFAA, etc.



Ge Yu received the PhD degree in computing science from Kyushu University of Japan in 1996. He is a professor of computer science at Northeastern University of China and director of the Computing and Networking Center. His research interests include distributed and parallel database, OLAP and data warehousing, data integration, transaction management, workflow management, graph data management, real-time, and embedded database. He has published more than 200 papers in refereed journals and conferences. He has served on the program committee for many international conferences (including VLDB, ICDE, CIKM, ER, DASFAA, ADC etc). He is a member of the IEEE Computer Society, the ACM, and the CCF, and is the chair of the CCF Office Automation Technical Committee.