

# Editorial

Jian Pei

I want to sincerely thank Drs. Kaushik Chakrabarti, Panos Ipeirotis, Latifur Khan, and Anthony Tung, who successfully completed their terms by June 2015. They have made remarkable contributions to the quality and the reputation of *TKDE*. I am sure they will continue their support to *TKDE* in the future.

At the same time, I want to welcome the associate editors who joined the editorial board in the first half of 2015: Foto Afrati, Denilson Barbosa, Yi Chang, Nitesh Chawla, Reynold Cheng, Carlotta Domeniconi, Xin Luna Dong, Tina Eliassi-Rad, João Gama, Rainer Gemulla, Jie Tang, and Ke Yi. This group of newly appointed associate editors represent our interest and determination in recruiting the best established and active working experts in the wonderful wide spectrum of knowledge and data engineering. Moreover, they are very dedicated to serving the community and handling the review processes, as testified by their rich experience.

As always, I thank all of the authors and readers for your continuing support. You are the ones making *TKDE* really meaningful.

Jian Pei  
Editor-in-Chief



**Foto Afrati** received the BS degree from the Mechanical and Electrical Engineering Department, National Technical University of Athens (NTUA), Greece, and the PhD degree from Imperial College at the University of London, United Kingdom. She is a professor in the Electrical and Computing Engineering Department, NTUA, Greece. She is a fellow of the ACM and has received the ACM Recognition for Service Award in 2005 and the Best Paper Award in ICDT 2009. She has been the program committee chair for Conference on Principles of Databases (PODS) 2005 and for International Conference on Database Theory (ICDT) 1997 for which she was the organizing committee chair as well. She spent her sabbatical leave visiting Google at Mountain View, CA, during 2012-2013. Her recent research interests are in the area of big data including query optimization for MapReduce and other similar distributed platforms. She has published more than 100 papers in the areas of databases, algorithms, and distributed computing.



**Denilson Barbosa** received the PhD degree from the University of Toronto in 2005, working on web data management. He is currently an associate professor in the Department of Computing Science, University of Alberta, in Edmonton, Canada, conducting research on databases, the web, information retrieval, and natural language processing, with emphasis on information extraction from semistructured and unstructured data. He has served as an associate editor of *SIGMOD Record* from 2010 to 2014 and as the ACM SIGMOD information director and web editor of the *Record* from 2006 to 2012. He received an Alberta Ingenuity New Faculty Award, an IBM Faculty Award, the Best Paper Award at the 2010 IEEE Conference on Data Engineering, and he supervised the recipients of the Best Undergraduate Poster Award at the 2012 ACM SIGMOD Conference. He was a principal investigator and the leader in the Data Quality Theme of the NSERC Business Intelligence Network.



**Yi Chang** is a research director at Yahoo Labs, where he is leading the search science group with more than 20 research scientists. He has broad research interests on information retrieval, applied machine learning, text mining, and social media mining. He has published more than 70 research papers on premium conferences or journals, including "Relevance Ranking for Vertical Search Engines," which is the first book in this subarea. He has been an associate editor of *Neurocomputing* (Elsevier), an associate editor of *Pattern Recognition Letters* (Elsevier) since 2011; he was a guest editor for the *Journal of Machine Learning Research* in 2010, and a guest editor for the *IEEE Intelligent Systems* in 2012. He served as a track chair of WWW 2015, an area chair of SIGIR 2014-2015 and CIKM 2011-2013, a poster chair of WWW 2012, a sponsorship chair of CIKM 2012. He has more than 20 issued or pending patents, and he is a senior member of the ACM and IEEE. For more information, please visit his homepage: <http://yichang-cs.com>.



**Nitesh Chawla** is the Professor of Computer Science and Engineering and the Frank Freimann Collegiate Chair of Engineering at the University of Notre Dame. He is the director of the Notre Dame Interdisciplinary Center for Network Science (iCeNSA), which is at the frontier of network and data science (Big Data) with a strong multidisciplinary focus. He has received numerous awards for research, scholarship, and teaching. His work has received and been nominated for a number of best paper awards. He received the 2015 IEEE CIS Outstanding Early Career Award. He received the IBM Watson Faculty Award in 2012 and the IBM Big Data and Analytics Faculty Award in 2013. He received the National Academy of Engineering New Faculty Fellowship. He received outstanding teaching awards in 2008 and 2011. In recognition of the societal and translational impact of his research, he was recognized with the Rodney Ganey Award in 2014, and Michiana 40 under 40 in 2013.

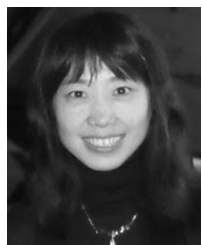


**Reynold Cheng** received the BEng degree in computer engineering and the MPhil degree in computer science and information systems from the University of Hong Kong (HKU) in 1998 and 2000, respectively, and the MSc and PhD degrees from the Department of Computer Science, Purdue University, in 2003 and 2005, respectively. He is currently an associate professor in the Department of Computer Science, HKU. He was granted a HKU Outstanding Young Researcher Award 2011-2012. He received the 2010 Research Output Prize in the Department of Computer Science. From 2005 to 2008, he was an assistant professor in the Department of Computing, Hong Kong Polytechnic University, where he received two Performance Awards. He is a member of the IEEE, ACM, ACM SIGMOD, and UPE. He is a PC area chair of CIKM 2014, and a workshop co-chair of ICDE 2014. He has also served on the program committees and review panels for leading database conferences and journals. He is an associate editor of the *IEEE Transactions on Knowledge and Data Engineering*, and a member of the editorial board of *Information Systems* and *DAPD* journal. His research interests include uncertain database management, crowdsourcing, and social networks.



**Carlotta Domeniconi** is an associate professor in the Department of Computer Science, George Mason University, which she joined in 2002. She was an assistant professor in the same department during August 2002-August 2008. Her research interests include machine learning, pattern recognition, data mining, and feature relevance estimation, with applications in text mining, educational data, and bioinformatics. She has published extensively in premier journals and conferences in data mining and machine learning. Her recent work includes methods to perform nonparametric Bayesian learning for clustering and coclustering (applied to documents and recommendation systems); coclustering ensembles (applied to news categorization); adaptive topic models for mining text streams with applications to topic detection and tracking; cross-domain classification for text; and ensemble techniques for clustering high-dimensional data and for active learning of constraints. She was the program co-chair of SDM in 2012 and the co-chair of various workshops (3Clust Workshop collocated with PAKDD 2012; MultiClust Workshop collocated with SDM 2014; Semantic Analysis of Documents Workshop collocated with DocEng 2014).

She has served as a PC member for KDD, ICDM, SDM, ECML-PKDD, and AAAI. During 2012-2014, she was an associate editor of the *IEEE Transactions of Neural Networks and Learning Systems Journal*. Currently, she is serving as an associate editor on the Editorial Board of *Knowledge and Information Systems (KAIS)* and of *Computational Intelligence*. She received an ORAU Ralph E. Powe Junior Faculty Enhancement Award. She was PI or co-PI on projects supported by the US Army, the Air Force, and the DoD. Her research has been in part supported by the US National Science Foundation (NSF) CAREER Award.



**Xin Luna Dong** is a senior research scientist at Google Inc. She is one of the major contributors for the Knowledge Vault project, and has led the Knowledge-based Trust project, the Solomon data fusion project, and the Semex personal data management project. She has coauthored the book *Big Data Integration*, published over 50 papers in top conferences and journals, given over 10 tutorials, and received the Best Demo award at Sigmod 2005. She is a PC cochair for WAIM 2015 and has served as an area chair for Sigmod 2015, ICDE 2013, and CIKM 2011.



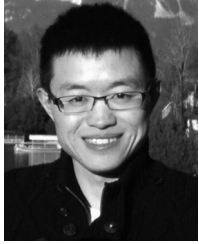
**Tina Eliassi-Rad** received the PhD degree in computer sciences (with a minor in mathematical statistics) at the University of Wisconsin-Madison. She is an associate professor of computer science at Rutgers University. Before joining academia, she was a Member of Technical Staff and a principal investigator at Lawrence Livermore National Laboratory. Her current research lays at the intersection of graph mining, network science, and computational social science. Within data mining and machine learning, her research has been applied to the World-Wide Web, text corpora, large-scale scientific simulation data, complex networks, fraud detection, and cyber situational awareness. She has published more than 60 peer-reviewed papers (including a best paper runner-up award at ICDM'09 and a best interdisciplinary paper award at CIKM'12); and has given more than 100 invited presentations. In 2010, she received an Outstanding Mentor Award from the US DOE Office of Science. For more details, visit <http://eliassi.org>.



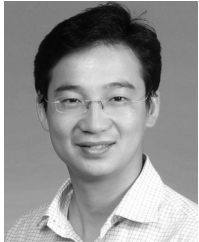
**João Gama** received the degree from the Faculty of Engineering of the University of Porto, Portugal. In 2000, he received the PhD degree in computer science from the Faculty of Sciences of the same University. He joined the Faculty of Economy (FEP) where he holds the position of associate professor. He is also a senior researcher at Laboratory for Artificial Intelligence and Decision Aid (LIAAD), a group belonging to INESC Porto. He is a member of the editorial board of major international journals in data mining and machine learning. He has authored more than 200 papers in areas related to machine learning, data streams, and adaptive learning systems, and is the author of the recent book *Knowledge Discovery from Data Streams*.



**Rainer Gemulla** received the PhD degree from the Technical University of Dresden, Germany, in 2008, and worked subsequently as a postdoctoral researcher at the IBM Almaden Research Center in San Jose, CA, and as a senior researcher at the Max Planck Institute for Informatics in Saarbrücken, Germany. He is a professor of computer science at the University of Mannheim, Germany, which he joined in 2014. His research focuses on data analysis and data mining techniques for efficiently extracting useful information from large, complex data collections. His work has been awarded with several awards, including multiple best-paper awards and a Google Focused Research Award. He serves as a junior fellow of the German Informatics Society (GI) since 2013.



**Jie Tang** is an associate professor with the Department of Computer Science and Technology, Tsinghua University. His interests include social network analysis, data mining, and machine learning. He published more than 100 journal/conference papers and holds 10 patents. He served as a PC Co-Chair of WSDM'15, ASONAM'15, ADMA'11, SocInfo'12, KDD-CUP Co-Chair of KDD'15, Poster Co-Chair of KDD'14, Workshop Co-Chair of KDD'13, Local Chair of KDD'12, Publication Co-Chair of KDD'11, and as the PC member of more than 50 international conferences. He is the principal investigator of National High-tech R&D Program (863), NSFC project, Chinese Young Faculty Research Funding, National 985 funding, and international collaborative projects with Minnesota University, IBM, Google, Nokia, Sogou, etc. He leads the project Arnetminer.org for academic social network analysis and mining, which has attracted millions of independent IP accesses from 220 countries/regions in the world. He was honored with the Newton Advanced Scholarship Award, CCF Young Scientist Award, NSFC Excellent Young Scholar, and IBM Innovation Faculty Award.



**Ke Yi** received the BE degree from Tsinghua University and PhD degree from Duke University, in 2001 and 2006, respectively, both in computer science. He is an associate professor in the Department of Computer Science and Engineering, Hong Kong University of Science and Technology. Before joining HKUST, he was a researcher in the Database Department, AT&T Labs. His research focus is on big data algorithms and their applications in database systems.



**Cong Yu** is a staff research scientist at Google Inc., New York. He is the tech-lead of the New York Structured Data Research Group, which aims to annotate structured data on the Web and surface them to Google users. His team has launched significant products, such as Table Search in Google Docs and Structured Snippets in Web Search. Externally, his research interests include knowledge applications such as computational journalism and large scale Web data analytics. Before Google, he was a research scientist at Yahoo! Research New York where he worked on social recommendation and Web data extraction. He obtained his PhD degree from the University of Michigan in 2007.