

New EIC Editorial

Xuemin Lin

◆

IT is my great honor to take the role of Editor-in-Chief of *IEEE Transactions on Knowledge and Data Engineering (TKDE)* to work for readers and authors. I want to take this opportunity to thank Professor Jian Pei, the outgoing editor-in-chief, and all past editors-in-chief for their outstanding vision, service, and leadership. These, together with their relentless commitment, has helped establish *TKDE* as the world premier journal in the areas of databases, data mining, knowledge engineering, and their applications. Indeed, the last decade has witnessed an unprecedented development in its reputation, quality of publications, and impact. I will try my best to work with you, the readers, authors, and editorial board members to retain the prestige and the quality, and make it even better. Here, I want to share with you my plan to run *TKDE* during my term as the editor-in-chief, ask you for your kind support, and invite you for your feedback. Many of my thoughts are in fact a continuation of the outgoing *TKDE* EIC.

First, *TKDE* should continue to serve as a leading venue to fuel the latest developments in data science and address the key applications. In particular, I will work with the associate editors to target strong submissions in key topics that may potentially generate significant impacts, such as Big Data Analytics, Scalable Distributed Data Processing Algorithms, System Developments, etc. *TKDE* will continue to proactively solicit timely and high quality surveys on emerging strategic directions. I will ensure that such surveys will be reviewed in an express track. I will also approach leading researchers and innovators for possible visionary papers that may benefit a broader research and development community.

Second, I will continue our persistent endeavor to enhance the review quality and submission quality of *TKDE*. I cordially invite researchers to only submit to *TKDE* their best, most innovative, and thorough work. Our goal is to shorten the turnaround time, enhance the communication quality between authors and reviewers by providing quality and informative review comments, and ensure that only high quality submissions may be accepted in *TKDE*. *TKDE* will use the IEEE Outstanding Reviewer Recognition program to acknowledge the excellent reviewers who always provide high quality reviews in a timely, informative, and responsible manner.

Third, I will continue our connection with world premier sister conferences. Since 2009, *TKDE* has published the best papers from the International Conference on Data Engineering (ICDE), while since 2016, ICDE has published *TKDE* papers, not extensions of conference papers, as posters. This is an excellent win-win situation for both *TKDE* and ICDE. I plan to continue these exercises. In addition, I will also explore collaborations with other top-tier conferences in the key areas covered by *TKDE*.

Fourth, continuing our effort toward making *TKDE* papers better received by broader scientific and engineering communities, I plan to pursue experimental repeatability by exploring mechanisms to encourage authors to publish their data sets and source/executable code as supplements to their papers, archived in the IEEE Computer Society Digital Library and IEEE Xplore. Additionally, *TKDE* welcomes informative and thorough experimental comparative studies on state-of-the-art methods, as well as concise and informative submissions on novel real data sets and data analytic platforms/tools.

Finally, I warmly welcome you to often visit our *TKDE* homepage and strongly encourage you to participate in our reader and author surveys. Your opinions and suggestions are valuable, and we will try our best to address your needs promptly.

As a final note, please join me in welcoming two newly appointed Associate Editors, Professor Gang Chen from Zhejiang University and Dr. Yinglong Xia from Huawei Research America.

Happy New Year.

Xuemin Lin
Incoming Editor-in-Chief



Gang Chen received the BS, MS, and PhD degrees in computer science from Zhejiang University in 1993, 1995, and 1998, respectively. He is currently a professor in the College of Computer Science, Zhejiang University, China. He has successfully led the investigation in research projects which aim at building China's indigenous database management systems. His research interests range from relational database systems to large-scale data management technologies supporting massive Internet users, especially database and information retrieval. He has served on the program committees of most prestigious database conferences such as VLDB. He has published more than 100 papers on several premium/leading journals and conferences including *TODS*, *VLDBJ*, *TKDE*, *SIGMOD*, *VLDB*, *ICDE*, and *SIGIR*. He was a recipient/winner of the Best Paper of VLDB 2014, one of the Best Papers for ICDE 2015 and ICDE 2012, respectively, the Second Prize of the National Science and Technology Progress Award, the Ministry of Education Science and Technology Progress Award, the First Prize of Zhejiang Province Science and Technology Award, etc. He is the executive director of the Zhejiang University-Netease Joint Lab on Internet Technology, the director of the Key Lab of Big Data Intelligent Computing of Zhejiang Province, and the director of the Institute of Computer Software of Zhejiang University.



Yinglong Xia received the BS degree from the University of Electronic Sciences and Technology of China (UESTC), in 2003, the MS degree in statistical machine learning from Tsinghua University, in 2006, and the PhD degree in computer science from the University of Southern California (USC), in 2010. He is currently a chief architect of big data and AI platforms in Huawei Research America, leading the efforts on enabling cutting-edge industrial platform for knowledge management and intelligent data processing. Before that, he was a technical lead of graph database and reasoning frameworks in the IBM T.J. Watson Research Center, serving as a core contributor to IBM System G on large scale graph/linked-data processing. Dr. Xia has multi-disciplinary background in Big Data, HPC, NoSQL Data Management, and Business Analytics. He publishes extensively with 40+ papers and 20+ patents. Besides, he has been a director since 2014 on the board of the Linked Data Benchmark Council (LDBC), working towards an industrial standard for graph data management. He is a Standardization Committee Member and has been the working group co-chair of the IEEE Big Data Initiative since 2015. He was a CCC/CRA Computing Innovation fellow (CIFellow) in 2010-2012. He is active in professional communities, serving as a co-chair of the

industry and government program in IEEE Big Data'16, a general vice co-chair of HiPC'16, a program co-chair of IEEE CBCom'16, a publicity co-chair of IEEE IPDPS'16, a TPC member of ACM/IEEE SC'16, etc.