

EIC Editorial

Philip S. Yu

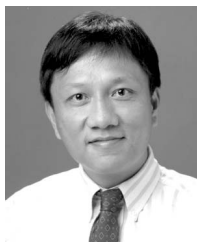
It is my great pleasure to introduce nine new members of the Editorial Board of the *IEEE Transactions on Knowledge and Data Engineering*: Dr. Charu C. Aggarwal, Professor Edward Chang, Professor Chris Clifton, Professor S. Muthu Muthukrishnan, Professor Beng Chin Ooi, Professor Kyuseok Shim, Professor Wei Wang, Professor Mohammed J. Zaki, and Professor Ning Zhong. They are internationally known and highly regarded for their work on knowledge and data engineering. We are very fortunate to have their services for the journal.

At the same time, I would like to thank the retiring *TKDE* editors who have dedicated their time to managing papers over the past four years: Professor Paolo Ciaccia, Professor Thomas Eiter, Professor Ahmed Elmagarmid, Professor Goerg Gottlob, Professor Ravi Kothari, Professor Laks Lakshmanan, Professor Louiqa Raschid, Professor China Ravishankar, Professor Mukesh Singhal, Professor Jaideep Srivastava, Professor Xindong Wu, and Professor John Yen.

Philip S. Yu
Editor-in-Chief



Charu C. Aggarwal received the BTech degree in computer science from the Indian Institute of Technology (1993) and the PhD degree in operations research from the Massachusetts Institute of Technology (1996). He has been a research staff member at the IBM T. J. Watson Research Center since June 1996. He has applied for or been granted 39 US patents and has published in numerous international conferences and journals. He has been designated a Master Inventor at IBM Research. His current research interests include algorithms, data mining, and information retrieval. He is interested in the use of data mining techniques for Web and e-commerce applications.



Edward Chang received the MS degree in computer science and the PhD degree in electrical engineering from Stanford University in 1994 and 1999, respectively. He is now a tenured associate professor of electrical and computer engineering at the University of California, Santa Barbara. His research activities are in the areas of multimedia databases, machine learning, data mining, and high-performance IO systems. He is particularly interested in the application of machine-learning theoretic approaches to fundamental problems in multimedia information retrieval. Recent research contributions of his group include methods for learning multimedia query concepts via active learning, formulating distance functions via dynamic associations and kernel alignment, and categorizing and indexing high-dimensional image/video data. His perception-based image retrieval approach, which applies learning algorithms to capture complex, subjective image query-concepts, was recognized as a major breakthrough in CBIR at the 2002 IEEE International Conference in Multimedia. Dr. Chang has served on numerous conference program committees including ACM SIGMOD, ACM Multimedia, ACM CIKM, SIAM Data Mining, IEEE Data Engineering, IEEE Multimedia, and the International Conference on Artificial Intelligence. He cochaired the first annual ACM Video Surveillance Workshop in 2003. He serves as a guest editor for *ACM Multimedia System Journal's* special issue on video surveillance. He is a recipient of the IBM Faculty Partnership Award from 2000 to 2002 and the US National Science Foundation Career Award in 2002. He is also a cofounder and the CTO of VIMA Technologies, which provides image searching and filtering solutions.



Chris Clifton received the bachelor's and master's degrees from the Massachusetts Institute of Technology and the PhD degree from Princeton University. He is an associate professor of computer science at Purdue University. Prior to joining Purdue in 2001, Dr. Clifton had served as a principal scientist at The MITRE Corporation and as an assistant professor of computer science at Northwestern University. His research interests include data mining, data security, database support for text, and heterogeneous databases. Most recently, he has been working on privacy-preserving data mining and secure multiparty computation concepts applied to collaborations with large amounts of data.



S. Muthu Muthukrishnan graduated from the Courant Institute of Mathematical Sciences in 1994. Since then, he has been at DIMACS, University of Warwick in the United Kingdom, Bell Labs, AT&T Labs-Research, and Rutgers University. His research is focused on algorithm design with applications to databases, networking, and other areas including computational biology, scheduling, compression, and pattern matching. His current research interest is in dealing with all aspects—algorithms, mathematical methods including embedding and dimensionality reduction and application systems—that support data streams. He has published more than 100 papers in major conferences and served on the program committees of conferences about algorithms, theoretical computer science, networking, and databases.

He holds more than 10 patents. He has been involved in building systems that have been operationally used, including those for handling wireless call detail records, providing automatic location-aware services in cellphone networks, and monitoring data quality in large databases.



Beng Chin Ooi received the BSc (first class honors) and PhD degrees from Monash University, Australia, in 1985 and 1989, respectively. He is a professor of computer science in the School of Computing, National University of Singapore, and a fellow of the Singapore-MIT Alliance Programme. His research interests include database performance issues, indexing techniques, P2P/grid/parallel processing, and internet applications. He has served as a program committee member for SIGMOD, VLDB, ICDE, EDBT, DASFAA, and other conferences. He is an editor of *GeoInformatica*, the *Journal of GIS*, *ACM SIGMOD DiSC*, and the *VLDB Journal*.



Kyuseok Shim received the BS degree in electrical engineering from Seoul National University in 1986 and the MS and PhD degrees in computer science from the University of Maryland, College Park, in 1988 and 1993, respectively. He is currently an associate professor at Seoul National University in Korea. Before that, he was an assistant professor at the Korea Advanced Institute of Science and Technology, a visiting scientist at Microsoft Research (Redmond, Washington), a member of the technical staff (MTS) at Bell Laboratories (Murray Hill, New Jersey), and a research staff member at IBM Almaden Research Center, San Jose, California. At Bell Laboratories, he was one of the key contributors to the Serendip data mining project. He was also a member of the Quest Data Mining project at the IBM Almaden Research Center. Dr. Shim has been working in the area of databases focusing on data mining, XML,

bioinformatics, data warehousing, query processing, and query optimization. He is currently on the editorial board of the *VLDB Journal*. He has published several research papers in prestigious conferences and journals. He has served as a program committee member on ACM SIGKDD, ACM SIGMOD, ICDE, ICDM, PAKDD, and VLDB conferences.



Wei Wang received the MS degree from the State University of New York at Binghamton in 1995 and the PhD degree in computer science from the University of California at Los Angeles in 1999. She is currently an assistant professor in the Department of Computer Science at the University of North Carolina at Chapel Hill and a member of the Carolina Center of Genomic Sciences. Before she joined the University of North Carolina, she was a research staff member at the IBM T.J. Watson Research Center. Her research interests include data mining, database systems, and bioinformatics. She has published more than 60 research papers in international journals and major conference proceedings. She has been a member of the editorial board of the *Journal of Data Management* since 2000 and has served on the program committees of many international conferences.



Mohammed J. Zaki received the PhD degree in computer science from the University of Rochester in 1998. He is an associate professor of computer science at Rensselaer Polytechnic Institute. His research interests include the design of efficient, scalable, and high-performance algorithms and systems for data mining, as well as data mining applications in bioinformatics. Dr. Zaki has published more than 90 papers on data mining, has coedited eight books, and served as a guest editor for *Information Systems*, *SIGKDD Explorations*, and *Distributed and Parallel Databases*. He is the founding cochair for the ACM SIGKDD Workshop on Data Mining in Bioinformatics (2001-2003) and has cochaired several workshops on High Performance Data Mining (2000-2003). He received a US National Science Foundation CAREER Award in 2001, a US Department of Energy Early Career Principal Investigator Award in 2002, and an ACM Recognition of Service Award in 2003.



Ning Zhong received the PhD degree from the University of Tokyo. He is currently head of the Knowledge Information Systems Laboratory and a professor at Maebashi Institute of Technology, Japan. His research interests include knowledge discovery and data mining, Web intelligence (WI), rough sets and granular-soft computing, and knowledge information systems, with more than 120 journal and conference publications, as well as more than 10 books. He is the editor-in-chief of the *Web Intelligence and Agent Systems* journal (IOS Press), regional editor of the *Knowledge and Information Systems* journal (Springer), editor-in-chief of the *Annual Review of Intelligent Informatics* (World Scientific), a member of the editorial board of the *LNCS Journal on Advances in Rough Sets* (Springer), and the editorial board of *Advanced Information and Knowledge Processing (AI&KP)* book series (Springer). He is the cofounder and cochair of the Web Intelligence Consortium (WIC), vice chair of the executive committee of the IEEE Computer Society Technical Committee on Computational Intelligence (TCCI), an advisory board member of ACM-SIGART, steering committee member of the IEEE International Conferences on Data Mining (ICDM), and an advisory board member of the International Rough Set Society. He has served or is currently serving on the program committees of more than 70 international conferences and workshops, including program chair of IAT '99, PAKDD '99, RSFDGrC '99, IAT '01, WI '01, RSCTC '02, ISMIS '03, and WI-IAT '04, conference chair of ICDM '02, ICAMT '03, and WI-IAT '03, as well as advisory committee member of IJCAI '03.