

Welcome to the *IEEE Transactions on Big Data*

Stephen Crago

It is with great excitement that we are publishing the first issue of the *IEEE Transactions on Big Data*. Big data has been an important topic for the IEEE for many years and big data is already transforming our world. Now is the time to publish a high quality, peer reviewed, multi-disciplinary journal that will document research that will help us navigate the opportunities and potential pitfalls, both ethical and technical, of big data. As described in our charter, *IEEE TBDATA* “will provide cross disciplinary innovative research ideas and applications results for big data including novel theory, algorithms and applications. Research areas for big data include, but are not restricted to, big data analytics, big data visualization, big data curation and management, big data semantics, big data infrastructure, big data standards, big data performance analyses, intelligence from big data, scientific discovery from big data security, privacy, and legal issues specific to big data.” *IEEE TBDATA* is fortunate to have both financial and technical sponsorship from eight IEEE societies and one council (IEEE Computer Society, IEEE Communications Society, IEEE Computational Intelligence Society, IEEE Sensors Council, IEEE Consumer Electronics Society, IEEE Signal Processing Society, IEEE Systems, Man, and Cybernetics Society, IEEE Systems Council, IEEE Vehicular Technology Society, IEEE Control Systems Society, IEEE Power and Energy Society, and IEEE Biometrics Society), with the IEEE Computer Society serving as the administrative partner. Each sponsor nominates an associate editor and the collection of sponsors behind *IEEE TBDATA* illustrates its importance to the IEEE community and provides both technical depth and breadth to our editorial board, which ensures the highest quality and relevance of our content.

I am especially pleased to introduce Qiang Yang as our founding editor-in-chief. Professor Yang’s biography speaks for itself, but I would like to express the gratitude of the Steering Committee to Qiang for his service. We are very fortunate to have such a uniquely qualified founding EIC. Qiang’s qualifications in research and management and editorial experience made him a unanimous selection as EIC, and he has been a pleasure to work with.

I would like to encourage our readership to follow the highest quality research in big data by subscribing to *IEEE TBDATA* and to contribute articles in response to both general and special issue calls for papers. Information on subscribing and submitting can be found at our website: <http://www.computer.org/web/tbd>.

Stephen Crago
Steering Committee Chair



Qiang Yang received the PhD degree from the Computer Science Department, University of Maryland, College Park in 1989. He was the founding head in Huawei Noah’s Ark Research Lab (2012-2015) and is the New Bright Named Chair Professor and Department Head in the Department of Computer Science and Engineering, Hong Kong University of Science and Technology. His research interests include data mining and artificial intelligence including machine learning, planning and activity recognition. He was an assistant/associate professor at the University of Waterloo between 1989 and 1995, and an associate/full professor and NSERC Industrial Research chair at Simon Fraser University in Canada from 1995 to 2001. He was an invited speaker at IJCAI 2009, ACL 2009, ACML 2009, SDM 2012, WSDM 2013 and KDD 2015. He was a vice chair in ACM SIGART/SIGAI (2010-2013) and the founding editor in chief of the ACM Transactions on Intelligent Systems and Technology (ACM TIST). He has been on the editorial board of *IEEE Intelligent Systems*, *IEEE Transactions on Knowledge and Data Engineering* (2005-2009), *AI Magazine*, etc. He has served as a PC co-chair and general chair of several international conferences, including ACM RecSys 2013, IEEE Big Data Conference 2013, ACM KDD 2010 and 2012, ACM IUI 2010 and IJCAI 2015. He is a fellow of IEEE, AAAI, AAAS and IAPR.

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Digital Object Identifier no. 10.1109/TBDATA.2015.2469371