

IEEE Northern Jersey Section Distinguished Lecture (SMC, CS, SP, Computer, and EMBS Chapters)

The Big Data Challenge: From Machine Learning and Pattern Recognition Perspective

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Time: 11:30am, Fri., March 6

Place: ECE 202, New Jersey Institute of Technology

In this talk we will first examine the basic characteristics of the problem induced by the big data scenario. A natural question is: are the existing machine learning and pattern recognition techniques capable of handling the big data problem? We will use the example of the large-scale image retrieval problem to discuss possible solution to this problem and explore potential research issues related to the big data.

Biography: Daniel S. Yeung is a Past President of the IEEE Systems, Man and Cybernetics (SMC) Society and a Fellow of the IEEE. He received the Ph.D. degree in applied mathematics from Case Western Reserve University. In the past, he worked as an Assistant Professor of Mathematics and Computer Science at Rochester Institute of Technology, Research Scientist in the GE Research Center, and as a System Integration Engineer at TRW, all in the United States. He was the chairman of the Department of Computing, The Hong Kong Polytechnic University, Hong Kong, and a Chair Professor from 1999 to 2006. Currently he is a visiting Professor in the School of Computer Science and Engineering, South China University of Technology, Guangzhou, China. His current research interests include neural-network sensitivity analysis, data mining, and fuzzy rough set. He was the Chairman of IEEE Hong Kong Computer Chapter, an associate editor for both IEEE Transactions on Neural Networks and IEEE Transactions on SMC (Part B), and for the International Journal on Wavelet and Multiresolution Processing. He has served as the President, President-Elect, a member of the Board of Governors, Vice President for Technical Activities, and Vice President for Long Range Planning and Finance for the IEEE SMC Society. He co-founded and served as a General Co-Chair since 2002 for the International Conference on Machine Learning and Cybernetics held annually in China. He also served as a General Co-Chair (Technical Program) of the 2006 International Conference on Pattern Recognition, and 2012, 2013 and 2015 International Conference on Systems, Man and Cybernetics. He is also the founding Chairman of the IEEE SMC Hong Kong Chapter.

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