

Department of Systems Engineering and Engineering Management

Seminar Series

Challenges and Opportunities in Industrial Big Data – on Statistical Transfer Learning and Beyond

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Date: 30 November 2018 (Friday)

Time: 2:30pm to 3:30pm

Venue: P7303, 7/F, Yeung Kin Man Academic Building (YEUNG)

Abstract

This talk will present and discuss the challenges and opportunities that industrial and systems engineers and managers face in the era of big data. The ability to separate signal and noise in the data-rich-information-poor environment would be the key, especially for industrial big data. Emerging research issues include data fusing with heterogeneous data sources, statistical transfer learning, and statistical process control and monitoring for big data streams. In particular, the talk will focus on statistical transfer learning that combines information from multiple domains and tackle related tasks in the target domains by transferring previously-acquired knowledge from source domains. Some research opportunities will also be discussed that extend statistical transfer learning to industrial applications.

About the Speaker

Prof. Fugee Tsung is Professor and former Head of the Department of Industrial Engineering and Decision Analytics (IEDA), Director of the Quality and Data Analytics Lab, at the Hong Kong University of Science & Technology (HKUST), and Editor-in-Chief of the Journal of Quality Technology (JQT). He is an Academician of the International Academy for Quality (IAQ), Fellow of the American Society for Quality (ASQ), Fellow of the American Statistical Association (ASA), Fellow of the Institute of Industrial and Systems Engineers (IISE), and Fellow of the Hong Kong Institution of Engineers (HKIE). He received both his MSc and PhD from the University of Michigan, Ann Arbor and his BSc from National Taiwan University. He has authored over 100 refereed journal publications and is also the winner of the Best Paper Award for the IIE Transactions in 2003, 2009, 2017. His research interests include industrial big data and quality analytics.

All are Welcome!