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DEPARTMENT OF COMPUTER SCIENCE 計算機科學系

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Distinguished Lecture Series

Big Graphs: Challenges and Opportunities

8 December 2021 (Wednesday)
10:30-11:30 a.m. GMT+8 (Hong Kong Time)

Zoom Webinar
(The webinar details will only be provided to registrants)

ABSTRACT

Big data is typically characterized with 4V's: Volume, Velocity, Veracity and Value. When it comes to big graphs, these challenges become even more staggering. A number of questions remain open. What parallel computation model should we adopt to scale with big graphs? Does parallel processing suffice to cope with the volume of big graphs? Is there a systematic method for developing effective incremental algorithms in response to frequent updates? Is it possible to uniformly query relational databases and graphs in, e.g., SQL? How can we unify logic rules and machine learning models, to improve the quality of graph-structured data? This talk aims to incite interest in these topics, and raises as many questions as it answers.

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Professor Wenfei Fan is the Chair of Web Data Management at the University of Edinburgh, UK, and the Chief Scientist of Shenzhen Institute of Computing Science, China. He is a Fellow of the Royal Society (FRS), a Fellow of the Royal Society of Edinburgh (FRSE), a Member of the Academy of Europe (MAE), an ACM Fellow (FACM), and a Foreign Member of Chinese Academy of Sciences. He received his PhD from the University of Pennsylvania (USA), and his MSc and BSc from Peking University (China). He is a recipient of Royal Society Wolfson Research Merit Award in 2018, ERC Advanced Fellowship in 2015, the Roger Needham Award in 2008 (UK), Yangtze River Scholar in 2007 (China), the Outstanding Overseas Young Scholar Award in 2003 (China), the Career Award in 2001 (USA), and several Test-of-Time and Best Paper Awards (Alberto O. Mendelzon Test-of-Time Award of ACM PODS 2015 and 2010, Best Paper Awards for SIGMOD 2017, VLDB 2010, ICDE 2007 and Computer Networks 2002). His current research interests include database theory and systems, in particular big data, data quality, data sharing, parallel computation, query languages and recommender systems.

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