

JOINT SEMINAR

Big Data Institute & Department of Computer Science and Engineering, HKUST

Graph and Network Mining: A 15 Years Journey

Prof. Jian Pei

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Date : 12 Jun 2019 (Wednesday)

Time : 2:00 - 3:00pm

Venue : Chen Kuan Cheng Forum (LT-H), HKUST

Abstract

As graph and network mining being a hot topic nowadays, in this talk, I will present a brief review of 15 years research in my group on this important topic. I will talk about how we started from building graph databases and graph indexes in 2004, and discuss the topics we researched including graph construction, graph databases, specialized graph databases (e.g., geographical networks and social networks), graph query answering, pattern mining in graphs, information flow and influence analysis on graphs, privacy preservation in social networks, machine learning on graphs from conventional classification and clustering to network embedding. From this narrow and relatively short memoir, I will try to summarize some experience and lessons learned on how to enter a new direction, which may be interesting and informative for graduate students and researchers.

About the speaker

Jian Pei is a Professor in the School of Computing Science, Simon Fraser University, Canada. He is renowned for his productive research in the general areas of data science, big data, data mining, and database systems. He has published prolifically and his publications have been cited over 84 thousand times. He is recognized as an ACM Fellow and an IEEE Fellow and several prestigious awards. In his recent leave-of-absence from the university, he acted as a Vice President of JD.com and a Technical VP of Huawei Technology. He has extensive experience in industry R&D, strategy consulting, and business operation.