



THE CHINESE UNIVERSITY OF HONG KONG
Department of Information Engineering

Seminar

**Understanding the Cyber-Physical Space
by Mobile Operator Big Data**

by

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The Chinese University of Hong Kong

Abstract

By focusing on characterizing the mobile traffic, web and information usage traces based on large-scale and long-duration mobile big data, which is collected from the commercial mobile operator with more than 10 thousand base stations and 6.5 million users spanning over some months, we qualitatively visualize and quantitatively characterize the spatio-temporal human behaviors in the physical-cyber space in terms of mobility, traffic consumption, social activity, etc. Based on these fundamental findings and credible models, we further investigate how to utilize these important insights to deal with problems encountered with the current mobile networks, urban management, and robust cyber-physical systems.

Biography

Dr. Yong Li (M'12-SM'16) received the B.S. degree from Huazhong University of Science and Technology in 2007, and the M.S. and the Ph.D. degrees in Electrical Engineering from Tsinghua University, in 2009 and 2012, respectively. During 2012 and 2013, he was a Visiting Research Associate with Telekom Innovation Laboratories and Hong Kong University of Science and Technology respectively. During 2013 to 2014, he was a Visiting Scientist with the University of Miami. Currently, he is a Faculty Member of the Department of Electronic Engineering, Tsinghua University. His research interests are in the areas of wireless networks and mobile computing. He has published more than 100 research papers. Among them, four are ESI Highly Cited Papers in Computer Science, and three received IEEE/AEI Conference Best Paper (run-up) Awards. His research outcomes are applied and further funded by industry companies of Hitachi, Huawei, Tencent, China Telecom, ZET, etc. Dr. Li has served as General Chair, Technical Program Committee (TPC) Chair, and TPC Member for several international workshops and conferences, and currently on the editorial board of three international journals.

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