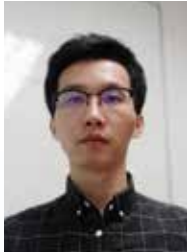




## Data-Driven Analytics of Human Dynamics



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### ► Abstract

Analytics of human dynamics is interdisciplinary research of human behaviors at multiple levels ranging from the physical level to the economic level. Due to the significance of understanding human dynamics in applications such as marketing and urban planning, it has been investigated extensively in various disciplines. Traditional human dynamics research is mainly based on manual observation, surveys, or interviews, which are time-consuming and labor-intensive. With the rapid development of digital information technologies, here comes the mobile and big data era for human dynamics research. These technologies keep track of our lives with digital records of the places we go, the products we buy, and the people we meet. Human dynamics research with data from limited observations in the controlled experimental environment has transformed into tons of data records on human communications, interactions, and activities in the naturalistic environment. In this talk, I will describe the taxonomy of data-driven analytics of human dynamics; introduce the latest research challenges and opportunities, and illustrate two analytic examples from my recent works.

### ► About the Speaker

Dr Jiaxing Shen is currently a research assistant professor of the Department of Computing at The Hong Kong Polytechnic University (PolyU). He received B.E. in Software Engineering from Jilin University in 2014 and Ph.D. in Computer Science from PolyU in 2019. From 2017 to 2018, he visited Prof. Alex 'Sandy' Pentland of Media Lab at Massachusetts Institute of Technology. Dr Shen's research interests include Mobile Computing, Data Mining, Social Computing, and Affective Computing. He has published several papers in high-impact journals like TMC, ACM TIST and IoT-J and top conferences including ACM WWW, IEEE ICDM, ICDCS, and INFOCOM. Dr Shen served as a reviewer for many international conferences and journals like TMC, INFORMS Journal on Computing, and IEEE PERCOM.

### *ALL are welcome!*

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