Mining Social Sensing Data: Representation, Modeling, and Applications

Research Seminar

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► Abstract

Social sensing uses humans as sensors to collect information about external physical events, such as disasters and protests, and then fuses data collected from different sources to obtain reliable information. However, social sensing data is noisy, multi-modal, and unreliable. Thus, extracting reliable information from social sensing data remains a big challenge. In this talk, I will introduce controllable representation learning models to uncover the latent factors of the observed social sensing data. Then I will introduce a series of truth-discovery algorithms with multi-modal data in social sensing. Finally, I envision my future work on social sensing.

► About the Speaker

Huajie Shao is currently a Ph.D. candidate of Computer Science at University of Illinois at Urbana Champaign (UIUC). He received his B.S. and M.S. degrees in Jiangnan University and Zhejiang University in 2011 and 2014, respectively. His research interests mainly focus on data mining, big data analytics, machine learning, with particular focus on social sensing. His research work has resulted in more than 30 research papers in top-tier international conferences and journals, including ICML, WWW, VLDB, SenSys, IMWUT (formerly UbiComp), INFOCOM, ICDCS, TOC, TPDS, and TSP. I received FUSION'19 Student Paper Award, UbiComp'19 Distinguished Paper Award, and ICCPS'17 Best Paper Award. In addition, his paper about for node localization in array sensor networks published in Trans. on Signal Processing (TSP) is nominated for the best paper in the past six years in the Signal Processing Society.

ALL are welcome!

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