Title:

Risk Perception and Prevention on Social Networking Platforms

Abstract:

With the popularization and development of the mobile Internet, social networking platforms have become one of the most influential application types on the Internet. While social networking platforms such as Weibo and Twitter provide convenience for people's communication and life, there are also social security risks such as malicious information manipulation, fake news, rumors, and online violence, which have caused great troubles to national security, public interests, and social stability. To response the urgent needs of proactive discovery, early warning and timely prevention of social security risks, there are many studies performed addressing various challenges in this area including multi-source data collection and fusion, multi-dimension data associated analysis, prediction and warning of social security risks, decision-making platform construction, etc. This workshop expects to become a meeting point between industry and academia to jointly provided valuable insights into the risk perception and prevention on social networking platforms. This workshop seeks to attract high-quality contributions covering both theory and practice overall aforementioned and other related aspects of big data and AI-driven social network analysis and analytics.

Scope and Topics:

Potential topics include but are not limited to:

- ✧ Information Retrieval for Social Networks
- ✧ Management of Social Network Data
- ✧ Social Networks Architecture
- ✧ Social Networks Mining and Analysis
- ✧ Data Mining and Machine Learning in Social Networks
- ✧ Modelling Social Networks and Behaviour
- ✧ Social Networks Sentiment Analysis and Opinion Mining
- ✧ Multilingual Natural Language Processing Tools for Social Networks
- ✧ Big Data and Social Networks
- ✧ IOT and Social Networks
- ✧ Infrastructure Support for Social Networks and Systems
- ✧ Communities in Social Networks
- ✧ Information Propagation and Assimilation in Social Networks
- ✧ Privacy and Security in Social Networks
- ✧ Social Networks Data Representation and Visualization
- ✧ Impact of Social Networks on Society
- ✧ Recommender Systems Applications in Social Networks

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Bio: Yifeng Liu received the Ph.D. degrees in Electronic Engineering from Wuhan University, Wuhan, China, in 2016. He is currently the senior engineer of China Academy of Electronics and Information Technology, and the deputy director of the National Engineering Laboratory for Risk Perception and Prevention (RPP), Beijing, China. Dr. Liu is a selected candidate of the 5th Youth Talent Promotion Project of China Association for science and technology. He won the first prize of Shijingshan District Science and technology award in 2016. The artificial intelligence video analysis system that he led the team to develop, has attracted more than 100 million RMB funds, which has been reported by people's daily. Dr. Liu has over 20 publications primarily in cyberspace and data science. His current research interests include around computer vision, machine learning, and knowledge engineering.

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Bio: Hao Peng is currently an Assistant Professor at the School of Cyber Science and Technology, and Beijing Advanced Innovation Center for Big Data and Brain Computing in Beihang University.
His research interests include representation learning, social network mining and reinforcement learning.
To date, Dr Peng has published over 70 research papers in top-tier journals and conferences, including the IEEE TKDE, TC, TPDS, TITS, ACM TOIS, TKDD, TIST, TSAS, AAAI, IJCAI, SIGIR, Web Conference, CIKM, ICDM, DASFAA, COLING, NAACL, etc.

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Bio: Yangyang Li received his Ph.D. degree in Computer Science from Beijing University of Posts and Telecommunications in 2015. Currently, he is a Senior Engineer in National Engineering Laboratory for Risk Perception and Prevention, China Academy of Electronics and Information Technology. The “Mobile Application Traffic Analysis” Project led by him won the third prize in the Central Enterprises Yixing Innovation and Creativity Competition, which was co-organized by six major authorities including the State-owned Assets Supervision and Administration Commission of the State Council; the National Development and

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Bio: Jia Wu is currently an ARC DECRA Fellow in the Department of Computing, Macquarie University, Sydney, Australia. His current research interests include data mining and machine learning. Since 2009, he has published 100+ refereed journal and conference papers, including TPAMI, TKDE, TNNLS, TKDD, TMM, TCYB, NIPS, WWW, IJCAI, AAAI, KDD, ICDM, SDM and CIKM. Dr Wu was the recipient of SDM'18 Best Paper Award in Data Science Track, IJCNN'17 Best Student Paper Award, and ICDM'14 Best Paper Candidate Award. He is the Associate Editor of the ACM Transactions on Knowledge Discovery from Data. Dr Wu is a Senior Member of IEEE.

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