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

Program Committee Chairs:

Dr. Yifeng Liu, National Engineering Laboratory for Risk Perception and Prevention, China
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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.

Prof. An-An Liu, Tianjin University, China
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Bio: Dr. An-An Liu is currently a professor in the School of Electronical Information Engineering, Tianjin University, China. He used to be the visiting professor in the Robotics Institute, Carnegie Mellon University and the School of Computing, National University of Singapore. His research interests include computer vision and machine learning. Various parts of his work have been published in first-tier venues including TPAMI, TIP, TCYB, TCSVT, TMI, CVPR, ACM MM, IJCAI. Dr. Liu has served as the (leading) guest editors for IEEE Transactions on Big Data, Journal of Visual Communication and Image Representation, Multimedia Tools and Applications and the reviewers for a rich set of forums, e.g., TIP, TCYB, TMM, TCSVT, TMI. Dr. Liu also serve as the area chair of ACM MM 2019 and 2020, the chair of CVPR 2017 workshop on Open Domain Action Recognition Challenge and CVPR 2016 workshop on Computer Vision for Microscopy Image Analysis.

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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 Reform Commission and the Ministry of Science and Technology. He has published over 60 academic papers and awarded the Best Paper Award of ICCCS 2018 and ICAIS 2019. His current research interests include social networks and cybersecurity.

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Bio: Dr. Chang is a Senior Lecturer and DECRA Fellow with the Faculty of Information Technology, Monash University. He is a leading data analytics researcher with >10 years' experience in high impact data science research, and working with researchers from other disciplines (including clinicians) to derive insights from data. He has >100 scientific publications, 10 of which have been ESI highly cited papers. His works have been cited by top researchers from CMU, MIT, Stanford, UC Berkeley, Google, Facebook and Microsoft. Since his PhD conferred in 2016, he has successfully led competitively funded research which focuses on advancing deep learning techniques (total >$2.8M, $0.8M as CIA), including 1 ARC DECRA fellowship, 1 US Defense Advanced Research Projects Agency (DARPA) grant, and 5 industry grants. He specialises on utilising deep learning to process multiple signals from different data sources for automatic content analysis. His team has won multiple awards/prizes from international grand challenges on deep learning techniques, which hosted competitive teams from MIT, University of Maryland, Facebook AI Research (FAIR) and Baidu VIS. Recently, he won the first place in the TrecVID 2019 - Activity Extended Video (ActEV) challenge, held by the National Institute of Standards and Technology, US.
He has a strong network of productive collaboration with leading researchers across the world. In the last 5 years, he has co-authored papers with researchers from Carnegie Mellon University, University of Pittsburgh, University of Michigan, Stanford University, Columbia University, among others. He has supervised 2 research fellows, 6 PhD students (5 current, 1 completed), 8 minor thesis students. His PhD student was offered a prestigious post-doc fellowship at Carnegie Mellon University, immediately after graduation. His research fellow won the best paper award from the 15th International Conference on Advanced Data Mining and Applications (ADMA) which is a top conference in data mining.

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