



**IEEE Global Communications
Conference**
9-13 December 2018
Abu Dhabi, UAE
Gateway to a Connected World



Call for Papers

Selected Areas in Communications Symposium

Track on Social Networks

Track Chair:

De-Nian Yang Institute of Information Science, Academia Sinica

Scope and Motivation:

Recently, social network research has advanced rapidly with the prevalence of the online social applications and mobile social communications systems. Online social networks have generated a significant share of the Internet traffic and become a dominant form of social interactions on the Internet. In addition to utilizing a desktop computer to write blogs, upload photos and chat with friends, an explosively increasing number of people are now used to share personal contents to friends on the fly with mobile devices, thanks to the development of broadband wireless networks and location sensing technologies. Facing this trend, researchers are increasingly interested in addressing a wide spectrum of challenges in social networks, such as developing social-aware algorithms for communications systems, identifying the static topological common structures and information/influence flows, analyzing the dynamic social media and evolutions of social graphs, and exploiting location-based and contextual information embedded in mobile social networks to create innovative applications. In light of the above crucial needs, Selected Areas in Communication Symposium in Social Networks will serve as a forum for researchers and technologists to discuss the state-of-the-art, present their contributions, and set future directions in social networks.

Main Topics of Interest:

In light of this trend, Selected Areas on Communication Symposium in Social Networks solicits original research papers on topics including, but not limited to:

- Social-aware network solutions in communications systems
- Cross-layer design for social networks and the underlying communications platforms
- Optimization and protocol design for mobile social networks
- Network graph modeling, measurements, simulations, and experiments



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- Analysis of dynamics and trends in the evolutions of social networks
- Analysis and control of belief, influence, and rumor propagations in social environments
- Analysis of social media, trust, and reputation
- Privacy and security in social network
- Social signal processing
- Data mining, machine learning, information retrieval, and artificial intelligence in social contexts
- Infrastructure, platform, protocol design, and optimization for mobile social clouds and social Internet-of-Things
- Innovative applications in social networks and services for mobile Internet, multimedia networks, mobile e-commerce, and cyber-physical systems
- Multidisciplinary and interdisciplinary research on social networks