



# Call for Papers for *Symposium on Selected Areas in Communications* *Social Networks Track*

## Track Chair

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## Scope and Motivation

Social networks, which target the development of social relations among people with common interest through web-based services, have contributed a large portion of Internet traffic nowadays and become dominant forms of social interaction on the Internet. This recent development brings significant research interests on the interplay between mobile communications networks, mobile computing and social networks. Due to its increasing prevalence and interdisciplinary nature, social networks have also attracted research attentions to a number of related technical areas, including cloud computing, big data analytics, data mining, information security and privacy protection. This track aims to provide a forum that brings together scientists and researchers from academia, industry, and government to present their cutting-edge innovations in all aspects of the field. High quality papers on practical applications and R&D results from industry and academic/industrial collaborations are encouraged.

## Topics of Interest

The Social Network Symposium seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Artificial Intelligence for social networks and applications
- Social networks applications and services to mobile Internet, multimedia networks, mobile-commerce, cyber-physical systems, and their potential social, economic, and cultural impacts
- System architecture, protocols, middleware and software engineering, terminal technology, user experience and interface technology, deployment and operations, and standards for social networks
- Convergence and interplay between social networks and the underlying communications platforms, including characterization of social interactions in mobile communication networks and analysis of social network from the communication theory perspective

- Knowledge discovery with big mobile data analytics and information dissemination and propagation in social networks
- Social network modeling, analysis, measurements, and experiments using big data for a better understanding of social network influence, reputation, recommendation, and community structure.
- Numerical and analytical techniques as a foundation to enable social networks of massive networked (big) data
- Influence of social networks on communications networks design and operation as well as the subsequent development of new paradigms of future communications networks
- Trusted networking, privacy and security, user behaviors and dynamics, and digital right management for big data from social networks
- New applications of large social network analysis and relational structure of social networks to design advanced wireless communication networks, and interplay with network science areas such as physics and biology
- Social networks influence on (wireless) communications systems and networks and subsequent new design paradigm of future (wireless) network communications
- Social network analysis on epidemic diagnosis and asymptomatic infector tracking for COVID-19 and other pandemics
- Design of Social Internet-of-Thing (SIoT) and intelligent Body Area Network (iBAN) for efficient collection of epidemic information
- Privacy-preserving distributed learning (e.g., federated learning) with SIoT and MEC for public health.

## Important Dates

**Paper Submission:** 12 October 2020

**Notification:** 25 January 2021

**Camera Ready and Registration:** 22 February 2021

## How to Submit a Paper

All papers for technical symposia should be submitted via [EDAS](#). Full instructions on how to submit papers are provided on the IEEE ICC2021 website: <https://icc2021.ieee-icc.org/>