



Symposium on Selected Areas in Communications: Social Networks Track

Co-Chairs

- Valeria Loscri, France, Email: <valeria.loscri@inria.fr>

Scope and Motivation

Recently, social network research has advanced rapidly with the prevalence of online social applications and mobile social communications systems. Metaverse has emerged as one of the future Internet for business, socialization, entertainment, and education in fully connected, immersive, and engaging online 3D virtual experiences. Nevertheless, the ongoing pandemic via contact social networks has caused tremendous human life and economic loss around the world, and infodemic is one of the major social impacts that make people difficult to discriminate trustworthy sources, from false and manipulative information sources. Therefore, 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 topological common structures and information/influence flows, analyzing the social media and evolutions of social graphs, and exploiting location-based and contextual information embedded in mobile social networks to create innovative applications. Due to its increasing prevalence and interdisciplinary nature, social networks have also attracted intensive research interests across multiple disciplines, including artificial intelligence, blockchain, big data analytics, information security and privacy protection, psychology, and marketing. In light of the above crucial needs, Selected Areas in Communication Symposium in Social Networks will serve as a forum for researchers and technologists from academia, industry, and government to discuss the state-of-the-art, present their cutting-edge innovations and contributions, and set future directions in all aspects of social networks.

Topics of Interest

The 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 network analysis on epidemic diagnosis and asymptomatic infector tracking for COVID-19 and other pandemics
- Convergence and interplay between Metaverse and the underlying communication networks
- Infrastructure, platform, protocol design, and optimization for mobile social networks, social vehicular networks, mobile social clouds, social Internet-of-Things, and new paradigm of future social-aware communication networks
- Social network graph modeling, analysis, measurements, and experiments using big data for a better understanding of social network influence, reputation, recommendation, and community structure
- Data mining, machine learning, information retrieval, signal processing, and artificial intelligence in social media and social contexts
- Trusted networking, privacy and security, user behaviors and dynamics, and digital right management for big data from social networks
- Innovative social networks applications and services to mobile Internet, multimedia networks, mobile commerce, cyber-physical systems, and their potential social, economic, and cultural impacts
- Multidisciplinary and interdisciplinary research on social networks

Biographies of the Co-Chairs

Valeria Loscri is a Research Director at Inria Lille, France. From Dec. 2006 to Sept. 2013, she was Research Fellow in the TITAN Lab of the University of Calabria, Italy. She received her MSc and PhD degrees in Computer Science in 2003 and 2007, respectively, from the University of Calabria and her HDR (Habilitation à diriger des recherches) in 2018 from Université de Lille (France). Her research interests focus on emerging technologies for new communication paradigms such as Visible Light Communication (VLC), mmWave, cooperation and coexistence of wireless heterogeneous devices and cyber security in wireless networks. She is involved in the activity of several European Projects (HorizonEurope MLSysOps, H2020 CyberSANE, FP7 EU project VITAL, etc.). She has been nominated to the 2021 Women Stars in Computer Networking and Communications by the IEEE Communication Society. She is in the editorial board of IEEE Transactions on Information Forensics & Security (TIFS), COMST, Elsevier ComNet, ComCom, IEEE Transactions on Nanobioscience. She is Action Chair and scientific Holder of BEiNG-WISE COST Action (since 2023). She is serving as TPC members in several primary international conferences, such as IEEE ESORICS, IEEE CNS, IEEE INFOCOM, IEEE PerCom. Since 2019, she is Scientific International Delegate for Inria Lille.

How to Submit a Paper

All papers for technical symposia should be submitted via EDAS. Full instructions on how to submit papers and important deadlines are posted at <https://icc2025.ieee-icc.org/>

The authors of selected papers from this symposium will be invited to submit an extended version of their work for fast-track review and possible publication in the IEEE Open Journal of the Communications Society.