



## Selected Areas in Communications Symposium Social Networking Track

### Symposium Co-Chairs

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The 2015 IEEE International Conference on Communications (ICC) will be held in London, UK from 8-12 June 2015. Themed “Smart City & Smart World,” with its proximity to Tech City, the fastest growing technology cluster in Europe, this flagship conference of IEEE Communications Society will feature a comprehensive technical program including twelve Symposia and a number of Tutorials and Workshops. IEEE ICC 2015 will also include an exceptional Industry Forum & Exhibition program including business panels and keynote speakers. We invite you to submit your original technical papers, and industry forum, workshop, and tutorial proposals to this event. Accepted and presented papers will be published in the IEEE ICC 2015 Conference Proceedings and submitted for inclusion in IEEE Xplore®/IEEE Digital Library. Full details of submission procedures are available at <http://www.ieee-icc.org/2015>.

### Scope and Topics of Interest

Social networks have gained considerable interest over the last five to ten years and have become in many cases the lion’s share of communications businesses. Such networks are now well known as the primal channels for communication and interaction on the Internet, presenting a more than ever increasing penetration and exploitation of communication networks in human lives. Social networks have traditionally been studied outside of the technological domains, but focus is now changing towards networking challenges such as cloud, mobile and wireless, privacy, data analytics, etc., while still keeping the social perspective such as focusing on improving quality-of-life. Social networks treating relationship as connections to form networks become an emerging technology in Internet and mobile computing/communications, as the foundation of popular personalized but anonymous applications/services of networking and communication infrastructure. The interplay between social networks and technological networks such as mobile networks and mobile computing is becoming still strong and many areas are still to be exploited.

The proposed track, among others, will cover the technical aspects of the interplay between social and communication networks, and more specifically will focus on original contributions regarding topics, such as structure, behavior, trust and security, dynamics, modeling, applications and optimization of social and communication networks. It aspires to raise holistically the awareness of the research and industrial communities in the area of both social and communication networks from diverse and broad perspectives and provide a venue for the presentation and dissemination of the latest original contributions in the corresponding field of science.

The aim of the Social Networking (SN) Track of the Symposium on Selected Areas on Communications is to provide a forum that brings together scientists and researchers from all over the world to present their cutting-edge innovations in all aspects of the field. The topics of interest for this track include (but are not limited to):

- Interplay between social networks and physical communications
- Social networks influence on (wireless) communications systems and networks and new design paradigm of future (wireless) communications
- Complex network structure analysis and optimization
- Graph theoretic analysis for mobile complex (social and physical) networks
- Social-aware network solutions in communications

- Mobile cyber-physical systems
- Analytical techniques as a foundation to enable social networks of massive networked (big) data
- Social networks applications and services to mobile Internet, multimedia networks, mobile-commerce, cyber-physical systems, and their potential social, economic, and cultural impacts
- Social relationship graphs of mobile devices
- Social network behaviors, dynamics, modeling, and analysis
- Representation, measurement, modeling of relationships
- Belief and message propagation, search technology over Internet, recommendation systems
- Trusted networking, security, privacy, and digital right management over social networking
- System architecture, protocols, middleware and software engineering, terminal technology, user experience and interface technology, deployment and operations, and standards, for social networks

### Submission Guidelines

Prospective authors are invited to submit original technical papers by the deadline 15 October 2014 for publication in the IEEE ICC 2015 Conference Proceedings. All submissions should be written in English with a maximum paper length of Six (6) printed pages (10-point font) including figures without incurring additional page charges (maximum 1 additional page with over length page charge if accepted).

**Standard IEEE Transactions templates for Microsoft Word or LaTeX formats found at**  
<http://www.ieee.org/portal/pages/pubs/transactions/stylesheets.html>

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**Only PDF files will be accepted for the review process and all submissions must be done through EDAS at**  
<https://edas.info/newPaper.php?c=17745&track=57957>

### Co-Chairs Biographies

**Symeon Papavassiliou** received the diploma in electrical engineering from the National Technical University of Athens, Greece, in 1990 and the MSc and PhD degrees in electrical engineering from Polytechnic University, Brooklyn, New York, in 1992 and 1995, respectively. Currently he is an associate professor in the School of Electrical and Computer Engineering at the National Technical University of Athens. From 1995 to 1999, he was a senior technical staff member at AT&T Laboratories, New Jersey. In August 1999 he joined the Electrical and Computer Engineering Department at the New Jersey Institute of Technology, USA, where he was an associate professor until 2004. From June 1996 till August 1999 he was also an adjunct professor at the Electrical Engineering Department of Polytechnic University, Brooklyn, NY. Dr. Papavassiliou was the Director of the Broadband, Mobile and Wireless Networking Laboratory (2000-2004) at the New Jersey Institute of Technology, USA, a founding member and Associate Director of the New Jersey Center for Wireless Networking and Internet security (2002-2004, New Jersey, USA), and a member of the New Jersey Center for Multimedia Research (1999-2001) and of the New Jersey Center for Wireless Telecommunications (1999-2003). Since 2005 he is also Associate Director of the Network Management and Optimal Design Laboratory at the National Technical University of Athens. He has an established record of publications in his field of expertise, with more than 200 technical journal and conference published papers. He received the Best Paper Award in IEEE INFOCOM'94, the AT&T Division Recognition and Achievement Award in 1997, the US National Science Foundation Career Award in 2003, the Best Paper Award in IEEE WCNC 2012, and the Excellence in Research Grant in Greece in 2012. Dr. Papavassiliou also served on the board of the Greek National Regulatory Authority on Telecommunications and Posts (2006– 2009). His main research interests lie in the area of communication networks, with emphasis on the analysis, optimization and performance evaluation of mobile and distributed systems, wireless networks, social networks and complex systems. He is an associate editor for IEEE Transactions on Parallel and Distributed Systems, a technical editor for IEEE Wireless Communications Magazine and serves as vice-chair of the IEEE Technical Subcommittee on Social Networks. He is also a senior member of the IEEE.