

IEEE International Conference on Communications  
IEEE ICC 2014  
*Communications: The Centrepiece of the Digital Economy*  
10-14 June 2014, Sydney, Australia

### **Mobile and Wireless Networking Symposium**

#### Symposium Co-Chairs

Weihua Zhuang, Univ. of Waterloo, Canada (wzhuang@uwaterloo.ca)

Pascal Lorenz, Univ. of Haute-Alsace, France (lorenz@ieee.org)

Jian Tang, Syracuse Univ., USA (jtang02@syr.edu)

Nurul I Sarkar, Auckland Univ. of Technology, New Zealand (nurul.sarkar@aut.ac.nz)

The 2014 IEEE International Conference on Communications (ICC) will be held in the beautiful city of Sydney, Australia from 10 to 14 June 2014. The theme of this flagship conference of IEEE Communications Society for 2014 is “*Communications: The Centrepiece of the Digital Economy.*” The conference will feature a comprehensive technical program including 12 Symposia and a number of Tutorials and Workshops. IEEE ICC 2014 will also include an attractive expo program including keynote speakers, and Industry Forum & Exhibitions (IF&E). We invite you to submit your original technical papers, industry forum, workshop, and tutorial proposals to this event. Accepted and presented papers will be published in the IEEE ICC 2014 Conference Proceedings and in IEEE Xplore®. Full details of submission procedures are available at <http://www.ieee-icc.org/2014>.

#### **Scope and Topics of Interest**

The Mobile and Wireless Networking Symposium will focus on new exploratory research results as well as practical solutions in the areas of mobile and wireless networking and enabling systems. Mobile and wireless technologies will continue to expand in the communication networks to meet the increasing traffic demand and new applications. There are various potentials and new solutions to extend the capacity and the reach of network in one hand, while improving network flexibility, operability, energy efficiency and quality of service on the other hand. Furthermore, the operational and capital per bit expenditures are to be reduced.

The objective of this symposium is to serve as an international forum for experts from academia and industry to exchange ideas and results on research and development, and to promote and accelerate standardization, applications, and services of current and future wireless communication networks. To ensure complete coverage of the advances in this field, the Mobile and Wireless Networking Symposium solicits original contributions in, but not limited to, the following topical areas:

- Mobile and wireless networking
- Wireless access and routing techniques and protocols
- Broadband wireless communication systems

- Resource allocation
- Green wireless networking
- Mobile networking, mobility and nomadcity
- Mobile IP networks
- Energy-efficient protocols for wireless networks
- Inter-working of 2G, 3G and 4G wireless networks
- Opportunistic networks
- Wireless mesh networks
- Cross-layer design, security, and optimization
- Delay tolerant networks
- Integration of ad hoc networks with wireless access networks
- Congestion and admission control
- QoS support for mobile networks
- Mobility patterns, location and handoff management
- RFID networks and protocols
- Modeling and analysis of wireless LAN/WAN
- B3G/4G systems, WiMAX, WLAN, WPAN
- Wireless multicasting, broadcasting, and geocasting
- Optimization models and algorithms
- Ubiquitous computing, services and applications
- Emerging wireless/mobile applications
- Portable devices and wearable computers
- System prototypes, real deployments and experimentation
- Passive, active and smart tags for ubiquitous computing
- Context and location aware applications
- Resource and service discovery
- Data replication and dissemination in mobile networks
- Mobile social networks
- Vehicular communication networks
- Gaming applications in ubiquitous computing environments
- Operating system and middleware support for mobile computing
- Intelligent transport systems and applications
- Multimedia over wireless networks
- Wireless telemedicine and e-health services
- Content distribution in wireless home environment
- Security, privacy and infrastructure for ubiquitous computing
- Service oriented architectures, service portability, P2P
- Cognitive radio networks
- Internet of Things (IoT)
- Machine-to-Machine (M2M) communications
- Wireless networking in smart grid

### **Submission Guidelines**

Prospective authors are invited to submit original technical papers by the deadline 15 September 2013 for publication in the IEEE ICC 2014 Conference Proceedings and for oral or poster presentation(s). 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>

**Alternatively you can follow the sample instructions in template.pdf at**

<http://www.comsoc.org/confs/globecom/2008/downloads/template.pdf>

**Only PDF files will be accepted for the review process and all submissions must be done through EDAS at**

<http://edas.info/>

**Weihua Zhuang** has been with the Department of Electrical and Computer Engineering, University of Waterloo, Canada, since 1993, where she is a Professor and a Tier I Canada Research Chair in Wireless Communication Networks. Her current research focuses on resource allocation and quality-of-service provisioning in wireless networks. She is a co-recipient of several Best Paper Awards from IEEE conferences. Dr. Zhuang is the Editor-in-Chief of IEEE Transactions on Vehicular Technology, and the Technical Program Symposia Chair of the IEEE Globecom 2011. She is a Fellow of the IEEE, a Fellow of the Canadian Academy of Engineering (CAE), a Fellow of the Engineering Institute of Canada (EIC), a Distinguished Lecturer of the IEEE Communications Society (2008-2011), and an elected member of the Board of Governors of the IEEE Vehicular Technology Society (2012-2014).

**Pascal Lorenz** (lorenz@ieee.org) received his M.Sc. (1990) and Ph.D. (1994) from the University of Nancy, France. Between 1990 and 1995 he was a research engineer at WorldFIP Europe and at Alcatel-Alsthom. He is a professor at the University of Haute-Alsace, France, since 1995. His research interests include QoS, wireless networks and high-speed networks .He is the author/co-author of 3 books, 3 patents and 200 international publications in refereed journals and conferences. He was Technical Editor of the IEEE Communications Magazine Editorial Board (2000-2006), Chair of Vertical Issues in Communication Systems Technical Committee Cluster (2008-2009), Chair of the Communications Systems Integration and Modeling Technical Committee (2003-2009) and Chair of the Communications Software Technical Committee (2008-2010). He has served as Co-Program Chair of IEEE WCNC'2012 and ICC'2004, tutorial chair of VTC'2013 Spring and WCNC'2010, track chair of

PIMRC'2012, symposium Co-Chair at Globecom 2011-2007 and ICC 2010-2008. He has served as Co-Guest Editor for special issues of IEEE Communications Magazine, Networks Magazine, Wireless Communications Magazine, Telecommunications Systems and LNCS.

He is senior member of the IEEE and member of many international program committees. He has organized many conferences, chaired several technical sessions and gave tutorials at major international conferences.

**Jian Tang** is currently an assistant professor in the Department of Electrical Engineering and Computer Science at Syracuse University. He earned his PhD degree in Computer Science from Arizona State University in 2006. His research interests lie in the areas of wireless networking and cloud computing. He has published over 60 papers in premier journals and conferences. He received an NSF CAREER award in 2009. He is currently an associate editor of IEEE Transactions on Vehicular Technology. He has served as a chair/co-chair for several symposia, including IEEE Globecom'2011 Wireless Networking Symposium, ICNC'2012 Wireless Networks Symposium, ICNC'2013 Wireless Networks Symposium, IWCMC'2013 General Symposium and WOCC'2013 Wireless Symposium. He has also been in the Technical Program Committee of many IEEE and ACM conferences, such as IEEE Infocom 2010-2013, IEEE ICC 2006-2013, IEEE Globecom 2006-2013 and ACM MSWiM 2008-2009.

**Nurul I. Sarkar** is an Associate Professor in the School of Computing and Mathematical Sciences at Auckland University of Technology (AUT), New Zealand. He is regularly invited to give keynote talks on his field of specialization at various national and international forums. He holds a PhD in Electrical and Electronic Engineering (Field of study: Wireless networks) from University of Auckland. "Tools for Teaching Computer Networking and Hardware Concepts," his first edited book was published by IGI Global in 2006, while his second book "Improving the Performance of Wireless LANs: A Practical Guide," is slated for 2013 and is being published by Taylor & Francis. Dr Sarkar leads Network and Security Research Group at AUT University. He has published more than 100 articles in refereed international journal and conference proceedings. Dr Sarkar is a member of various professional organisations and societies, including IEEE Communications Society (ComSoc) and Australasian Association for Engineering Education. He is an elected chairman of the IEEE joint New Zealand North/South ComSoc Chapter, a senior member of IEEE, and fellow of ITU-UUM. He was a guest editor for AP Journal of Networks, and an associate editor for International Journal of Wireless Networks and Broadband Technologies, and member of various international editorial review boards. He served as associate technical editor for the IEEE Communications Magazine (2005-2010), TPC co-chair for IEEE ICC 2014, APCC 2012, TENCON 2010 and ATNAC 2010. Dr Sarkar serves on the technical program committees of various leading networking conferences (e.g. IEEE Globecom, ICC, WCNC, PIMRC, UbiCoNet, ISCC, ATNAC, ICCS, ICNC, and ACM SIGCSE) as well as track and session chairs for several national and international forums.