



## Wireless Communications Symposium

### 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

The Wireless Communications Symposium will focus on all aspects related to wireless communications and applications in current and future wireless systems, including topics related to physical layer (PHY), Medium Access Control (MAC) layer, cross-layer, and PHY-related network analysis and design. High quality papers reporting on novel and practical solutions to PHY, MAC and cross-layer design in wireless communication systems are encouraged. To ensure complete coverage of the advances in wireless communications, the Wireless Communications Symposium cordially invites original contributions in, but not limited to, the following areas:

- MIMO and multi-antenna communications
- Space-time coding and processing
- Smart antennas
- Distributed antenna systems and radio over fiber techniques
- Massive MIMO
- Multiuser MIMO
- Modulation, coding, and diversity techniques
- OFDM, FMT and other multicarrier systems
- CDMA, TDMA, FDMA, OFDMA and other air interfaces
- Advanced equalization for single carrier systems
- Radio resource allocation and interference management
- Cooperative and relay-aided communications
- Wireless network coding
- Cross-layer design
- Interference alignment and cancellation techniques

- Multiple access techniques
- Hybrid wireless communication systems
- Cellular systems
- Small cells and heterogeneous networks
- Wireless LANs and PANs
- Cognitive radio
- Spectrum access
- Green communications
- Detection and estimation
- Compressive sensing for communications
- Security issues related to wireless communications
- Localization techniques
- Wireless channel modelling
- Field tests and measurements
- Body area networks (BAN) and their applications
- Millimeter wave and visible light communications
- RFID and its applications
- DVB and DAB techniques
- Wireless system standards
- Fixed wireless broadband access systems
- Ultra-wideband communications (UWB)
- Underwater wireless communications
- Integration between satellite and terrestrial wireless networks
- Radio Systems Virtualization

### 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>

**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**  
<https://edas.info/newPaper.php?c=17653>

### Co-Chairs Biographies

**Lin Dai** received the B.S. degree from Huazhong University of Science and Technology, China, in 1998, and the M.S. and Ph.D. degrees from Tsinghua University, China, in 2003, all in electronic engineering. She worked at the Hong Kong University of Science and Technology from 2003 to 2005, and University of Delaware from 2005 to 2006. Since 2007, she has been with City University of Hong Kong, where she is currently an associate professor. She has broad interest in communications and networking theory, with special interest in wireless communications. She has served as a Co-chair or TPC member for many conferences including IEEE ICC 2008-14, Globecom 2007-14, WCNC 2007-08, 2010, 2013-14. She received the Best Paper Award of IEEE WCNC 2007 and the IEEE Marconi Prize Paper Award in 2009.

**Xiaoli Chu** is a Lecturer in the Department of Electronic and Electrical Engineering at the University of Sheffield, UK. She received the B.Eng. degree in Electronic and Information Engineering from Xi'an Jiao Tong University in 2001 and the Ph.D. degree in Electrical and Electronic Engineering from the Hong Kong University of Science and Technology in 2005. From September 2005 to April 2012, she was with the Centre for Telecommunications Research at King's College London. She is the leading editor/author of the book *Heterogeneous Cellular Networks – Theory, Simulation and Deployment*, Cambridge University Press, July 2013. She is guest editor of the Special Section on Green Mobile Multimedia Communications (April 2014) for *IEEE Transactions on Vehicular Technology* and the Special Issue on Cooperative Femtocell Networks (Oct. 2012) for *ACM/Springer Journal of Mobile Networks & Applications*. She is Editorial Board Member of *IEEE Communications Society MMTC R-Letter*. She was Workshop Co-Chair for the *IEEE International Conference on Green Computing and Communications 2013 (GreenCom'13)*, and has been TPC Co-Chair of several workshops on HetNets for *IEEE GlobeCom*, *WCNC*, *PIMRC* and some other international conferences. She received the UK EPSRC Cooperative Awards in Science and Engineering for New Academics in 2008, the UK EPSRC First Grant in 2009, and the RCUK UK-China Science Bridges Fellowship in 2011.

**Santiago Mazuelas** received the Ph.D. in Mathematics and Ph.D in Telecommunications Engineering from the University of Valladolid, Spain, in 2009 and 2011, respectively. Since 2009, he has been a postdoctoral fellow and associate in the Wireless Communication and Network Sciences Laboratory at MIT. He previously worked from 2006 to 2009 as a Researcher and Project Manager in a Spanish technological center, as well as a junior lecturer in the University of Valladolid. His research interests are the application of mathematical and statistical theories to signal processing and navigation networks. Dr. Mazuelas served as Co-chair for the 2014 *IEEE Globecom Wireless Communication Symposium* and he has been a member of the TPC for numerous conferences including the *IEEE Globecom* in 2010–2013, *ICC* in 2013, *VTC* in 2012, and *ICUWB* in 2011 and 2013. He received the Best Student Prize in Telecommunications Technical Engineering from University of Valladolid in 2006, the Best Doctorate Thesis Award from University of Valladolid in 2011, and the Young Scientist Prize from the Union Radio-Scientifique Internationale (URSI) Symposium in 2007. His papers received the *IEEE Communications Society Fred W. Ellersick Prize* in 2012, and Best Paper Awards from the *IEEE ICUWB* in 2011, the *IEEE Globecom* in 2011, and the *IEEE ICC* in 2013.

**Dongming Wang** received the Ph. D. degree from Southeast University, China, in 2006. He joined the National Mobile Communications Research Laboratory at Southeast University, China, in 2006, where he has been an Associate Professor since 2010. From March 2013 to September 2013, he was a visiting scholar at University of California, Davis, CA. His current research interests include turbo detection, channel estimation, distributed antenna systems, and large-scale MIMO systems. Dr. Wang served as a member of the TPC in the *IEEE Wireless Communications and Networking Conference (IEEE WCNC 2013)*, the *IEEE Wireless Communications and Signal Processing Conference (IEEE WCSP 2011, 2013)*. He is currently an associate editor for the *SCIENCE CHINA Information Sciences*.

**Atílio Gameiro** received his Licenciatura and his PhD from the University of Aveiro in 1985 and 1993 respectively. He is currently Professor in the Department of Electronics and Telecom. of the University of Aveiro, and a researcher at the Instituto de Telec., Pólo de Aveiro, where he is head of group. His industrial experience includes a period of one year at BT Labs and one year at NKT Elektronik. His main interests lie in signal processing techniques for digital communications and communication protocols, and within this research line he has done work for optical and mobile communications, either at the theoretical and experimental level, and has published over 200 technical papers in International Journals and conferences. His current research activities involve space-time-frequency algorithms for the broadband wireless systems and cross-layer design. He has been involved and has led IT or Univ of Aveiro participation on more than 20 national and European projects.