



Bridging the Broadband Divide
9-13 June • Budapest, Hungary



WWW.IEEE-ICC.ORG/2013



Wireless Communications Symposium

Symposium Co-Chairs

Neelesh B. Mehta, Indian Institute of Science, India

Email: neelebmehta@ieee.org

Hanna Bogucka, Poznan University of Technology, Poland

Email: hbogucka@et.put.poznan.pl

Fredrik Tufvesson, Lund University, Sweden

Email: fredrik.tufvesson@eit.lth.se

Zhaocheng Wang, Tsinghua University, China

Email: zcwang@mail.tsinghua.edu.cn

The 2013 IEEE International Conference on Communications (ICC) will be held in the vibrant city of Budapest, Hungary from 9 – 13 June 2013. This flagship conference of IEEE Communications Society aims at addressing an essential theme on “Bridging the Broadband Divide.” The conference will feature a comprehensive technical program including several Symposia and a number of Tutorials and Workshops. IEEE ICC 2013 will also include an attractive expo program including keynote speakers, various Business, Technology and Industry forum, and vendor exhibits. 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 2013 Conference Proceedings and in IEEE Xplore®. Full details of submission procedures are available at <http://www.ieee-icc.org/2013>.

Scope and Topics of Interest

The Wireless Communications Symposium will focus on all aspects related to wireless communications and its applications in current and future wireless systems. It focuses on topics related to Physical layer (PHY) and MAC layers, on Cross-layer design, and issues related to PHY layer-related network analysis and design. High quality papers reporting on novel solutions on these topics are encouraged. In addition, papers on field tests and measurements, field trials and practical applications are of interest.

To ensure complete coverage of the advances in wireless communications, the symposium requests original contributions in, but not limited to, the following topical areas:

- Modulation, coding, and diversity techniques
- Multiple access techniques
- Cognitive radio and software defined radio
- Spectrum access
- Green communications
- MIMO and multi-antenna communications

- Space-time coding and processing
- Smart antennas
- OFDM, FMT and other multicarrier systems
- CDMA, TDMA, FDMA, OFDMA and other air interfaces
- Advanced equalization for single carrier systems
- Wireless multicasting
- Detection and estimation
- Cross-layer design
- Security issues related to wireless communications
- Localization techniques
- Cooperative and relay-aided communications
- Wireless test-beds
- Wireless channel modelling
- Field tests and measurements
- Wireless network coding
- Hybrid wireless communication systems
- Broadband wireless access techniques
- Cellular systems
- Femtocells
- Wireless LANs and PANs
- Body area networks (BAN) and their applications
- Millimeter wave wireless systems
- RFID and its applications
- DVB and DAB techniques
- Wireless system standards
- Radio resource allocation and interference management
- Fixed wireless broadband access systems
- Spectrum efficiency and issues
- Wireless multimedia and QoS
- Ultra-wideband communications (UWB)
- Integration between satellite and terrestrial wireless networks

Submission Guidelines

Prospective authors are invited to submit original technical papers by the deadline 16 September 2012 for publication in the IEEE ICC 2013 Conference Proceedings and for oral or poster presentation(s).

All submissions should be written in English with a maximum paper length of Five (5) 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/>

Short biography of co-chairs

Neelesh B. Mehta is an Associate Professor at the Indian Institute of Science (IISc), Bangalore, India. Prior to joining IISc, he has held research positions in USA at AT&T Research Labs (NJ), Broadcom Corp. (NJ), and Mitsubishi Electric Research Laboratories (MA). He received his MS and PhD degrees in Electrical Eng. from the California Institute of Technology, Pasadena, CA, USA in 1997 and 2001, respectively. He received his Bachelor of Technology degree in Electronics and Communications Eng. from the Indian Institute of Technology (IIT), Madras, India in 1996. He has co-authored 30+ IEEE transactions papers, 60+ conference papers, 3 book chapters, and is a co-inventor in 20 issued US patents. He is currently the Director of Conference Publications in the Board of Governors of the IEEE Communications Society and an editor for the IEEE Wireless Communications Letters.

Hanna Bogucka is a professor and a Deputy-Dean for Research at the Faculty of Electronics and Telecommunications at Poznan University of Technology, Poland. She is involved in the research activities in the area of wireless communications within European 5th – 7th Framework Programme projects, COST actions and projects funded by National Science Centre. Prof. Bogucka is the author of four book chapters and over 100 papers, published in major IEEE journals and magazines, and in the proceedings of international conferences. She has also published 3 handbooks in the area of radio communications and digital signal processing (in Polish). Prof. Bogucka has been the guest editor of the *IEEE Communications Magazine* and is a member of the Editorial Board of the journal “Advances in Electronics and Telecommunications”, Publishing House of Poznan University of Technology and of the “Recent Patents on Telecommunications”, Bentham Science Publishers.

Fredrik Tufvesson received his Ph.D. in 2000 from Lund University in Sweden. After almost two years at a startup company, Fiberless Society, he is now associate professor at the department of Electrical and Information Technology, Lund University. His main research interests are channel measurements and modeling for wireless communication, including channels for both MIMO and UWB systems. Beside this, he also works on distributed antenna systems, radio based positioning and with his company, Hepkie, on radio based search and rescue equipment. Fredrik is currently associate editor for IEEE Transactions on Wireless Communications and has authored and co-authored around 30 journal papers and 90 conference papers.

Zhaocheng Wang received his B.S., M.S. and Ph.D. degrees from Tsinghua University in 1991, 1993 and 1996, respectively. From 1996 to 1997, he was with Nanyang Technological University (NTU) in Singapore as a Post Doctoral Fellow. From 1997 to 1999, he was with OKI Techno Centre (Singapore) Pte. Ltd., firstly as a research engineer and then as a senior engineer. From 1999 to 2009, he worked at SONY Deutschland GmbH in Germany, firstly as a senior engineer and then as a principal engineer. He is currently a Professor at the Department of Electronic Engineering, Tsinghua University. His research areas include wireless communications, digital broadcasting and millimeter wave communications. He holds 25 granted US/EU patents and has published over 70 technical papers. He is currently an Associate Editor of IEEE Trans. Wireless Communications and has served as technical program committee co-chair/member of many international conferences. He is a Senior Member of IEEE and a Fellow of IET.