

**Call for papers for
Wireless Communications Symposium
(WCS)**

Symposium Track Co-Chairs

Mohamad Assaad	CentraleSupélec, France
Azzedine Boukerche	University of Ottawa, Canada
David Dardari	University of Bologna, Italy
Jyri Hämäläinen	Aalto University, Finland
Yahong Rosa Zheng	Missouri University of Science and Technology, USA

Submissions must be done through EDAS at: <https://edas.info/newPaper.php?c=22640&track=81055>
The paper submission deadline is October 14, 2016.

Scope and Motivation

The Wireless Communications Symposium covers all aspects related to wireless communications and its applications, with a focus on topics related to physical layer (PHY), MAC layer, cross-layer, and physical layer-related network analysis and design. High quality papers reporting on novel and practical solutions for PHY, MAC, and cross-layer design in wireless communication systems are encouraged. In addition, papers on field tests and measurements, field trials and applications from both industries and academia are of special interest.

Main Topics of Interest

To ensure complete coverage of the advances in wireless communications technologies for the current and future systems, the Wireless Communications Symposium cordially invites original contributions in, but not limited to, the following topical areas:

- Broadband wireless access techniques, systems, and standards
- Antennas, smart antennas, and space-time processing
- Cross-layer design and physical-layer based network issues
- Cooperative and relay-aided communications
- Radio resource allocation and interference management
- MIMO, multi-user MIMO, and massive MIMO
- Inter-cell interference coordination (ICIC) and coordinated multi-point (CoMP)
- Channel modelling and propagation
- Advanced equalization, channel estimation, and synchronization
- Compressive sensing for communications
- Physical layer issues in device-to-device and machine-to-machine communications
- Digital broadcasting of audio (DAB), video (DVB), and multimedia (MBMS)
- Hybrid communication systems (e.g. satellite/terrestrial/wireline hybrids)
- Interference modelling and performance analysis using stochastic tools
- Interference management, alignment, and cancellation
- Localization and navigation techniques
- Millimeter wave and Terahertz communications
- Modulation, coding, and diversity techniques
- Multiple access techniques and air interfaces (CDMA, TDMA, FDMA, OFDMA)
- Energy harvesting for wireless communications
- Performance analysis of wireless communication systems
- Physical-layer network coding
- Physical-layer security

- Physical-layer aspects of wireless sensor networks
- RFID and its applications
- Security issues related to wireless communications
- Wireless communications on different media (e.g., underwater)
- Wireless communications testbeds, field tests, and measurements
- Wireless power transfer
- Heterogeneous and small-cell networks

Biographies

Mohamad Assaad received the MSc and PhD degrees, from Telecom ParisTech, Paris, France, in 2002 and 2006, respectively. Since 2006, he has been with the Telecommunications Department at CentraleSupélec, where he is currently a professor. He has co-authored 1 book and more than 80 publications in journals and conference proceedings and has given tutorials in many conferences and industrial workshops including IEEE ISWCS, PIMRC and WCNC. His research interests include mathematical models of communication networks, resource optimization and cross-layer design in wireless networks, and stochastic network optimization. He is Senior Member of the IEEE.

Azzedine Boukerche (F-IEEE, FEIC, FCAE, FAAAS) is a Professor and holds a Senior Canada Research Chair Tier-1 position at the University of Ottawa (Ottawa). He is the Scientific Director of DIVA Strategic Research Network, the Director of NSERC-TRANSIT Network, and the founding director of the PARADISE Research Laboratory, School of Electrical Engineering and Computer Science (EECS), Ottawa. Prior to this, he held a faculty position at the University of North Texas, he spent a year at the JPL/NASA-California Institute of Technology, where he contributed to a project centered on specification and verification of the software used to control interplanetary spacecraft operated by JPL/NASA Laboratory, and he was a senior scientist at the Simulation Sciences Division, Metron Corp., San Diego. He is the recipient of IEEE CS Golden Core Award, IEEE Gotlieb Medal Award, IEEE ComSoc AHSN Exceptional Leadership Award, IEEE TCPP Exceptional Leadership Award, the IEEE ComSoc TC Software and Multimedia Technical Achievement Award. He serves as an Editor of several IEEE and ACM Journals and a Steering Committee on several IEEE/ACM International Conferences.

Davide Dardari is an Associate Professor at the University of Bologna, Italy. Since 2005, he has been a Research Affiliate at Massachusetts Institute of Technology, USA. His interests are on wireless communications, localization techniques and distributed signal processing. He received the IEEE Aerospace and Electronic Systems Society's M. Barry Carlton Award (2011) and the IEEE Communications Society Fred W. Ellersick Prize (2012).

He is Senior Member of the IEEE where he was the Chair for the Radio Communications Committee of the IEEE Communication Society. He served as an Editor for IEEE Transactions on Wireless Communications from 2006 to 2012.

Jyri Hämmäläinen received his M.Sc. and Ph.D. degrees from University of Oulu, Finland, in 1992 and 1998, respectively. From 1999 to the end of 2007 he was with Nokia where he worked on various aspects of mobile communication systems. Since 2008 he has been a Professor in Aalto University, School of Electrical Engineering, where he is currently serving as a Dean. His research interests include small cells, multi-antenna transmission and reception techniques, scheduling, relays, and design and analysis of future wireless networks in general. Hämmäläinen is author or co-author of over 180 scientific publications and 36 US patents or patent applications.

Yahong Rosa Zheng received the B.S. degree from the University of Electronic Science and Technology of China, Chengdu, China, in 1987, and the M.S. degree from Tsinghua University, Beijing, China, in 1989, both in electrical engineering. She received the Ph.D. degree from the Department of Systems and Computer Engineering, Carleton University, Ottawa, Canada, in 2002. She was an NSERC Postdoctoral Fellow from Jan. 2003 to April, 2005 at the University of Missouri-Columbia. In fall 2005, she joined the Department of Electrical and Computer Engineering at the Missouri University of Science and Technology where, currently, she is a professor. She is currently Associate Editor for IEEE Transactions on Vehicular Technology and for IEEE Journal of Oceanic Engineering. She is the recipient of an NSF CAREER award in 2009. She has been a Fellow of the IEEE since 2015.