Call for papers
Wireless Communications Symposium
ICNC 2018

Maui, Hawaii, USA, March 5-8, 2018
http://www.conf-icnc.org/2018/

Symposium Co-chairs

Lifeng Lai, University of California, Davis, USA, lflai@ucdavis.edu
Joerg Widmer, IMDEA Networks Institute, Spain, joerg.widmer@imdea.org

Scope

The Wireless Communications Symposium will focus on topics related to all aspects of Physical layer (PHY), MAC layer, Cross-layer, and Physical layer-related network analysis and design. To ensure complete coverage of the advances in wireless communications technologies for current and future systems, the Wireless Communications Symposium invites original contributions in, but not limited to, the following topical areas:

- Antennas, smart antennas, and space-time processing
- Broadband wireless access techniques, systems, and standards
- Cognitive radio communications
- Channel modeling and propagation
- Cross-layer design and physical-layer based network issues
- Device-to-device (D2D) and machine-to-machine (M2M) communications
- Distributed, relay assisted, and cooperative communications
- Energy harvesting communications & Wireless power transfer
- Full-duplex radio communications
- Green communications
- Heterogeneous and small-cell networks
- Hybrid communication systems (e.g. satellite/terrestrial/wireline hybrids)
- Interference characterization and modeling
- Interference management, alignment, and cancellation
- Localization and navigation techniques
- Maritime, space and underwater communications
- Millimeter wave and Terahertz communications
- MIMO, multi-user MIMO, and massive MIMO
- Modulation, coding, and diversity techniques
- Millimeter Wave
- Multiple access techniques and air interfaces
- OFDM and multi-carrier systems
- Performance analysis of wireless systems
- Physical-layer network coding
- Physical-layer security
- Physical-layer aspects of wireless sensor networks

- Radio resource management
- Radio Systems Virtualization
- Ultra-wideband communications (UWB)
- Underwater wireless communications
- Visible light communications
- Wireless communications testbeds, field tests, and measurements

Submission Guidelines

Please follow the author instructions at http://www.conf-icnc.org/2018/author.htm
Direct paper submission for this symposium can be found at http://www.conf-icnc.org/2018/cfp.htm

Short biography of co-chairs

Lifeng Lai

Lifeng Lai is an Associate Professor at University of California, Davis. His current research interest includes information theory, stochastic signal processing, machine learning and their applications. Dr. Lai was a Distinguished University Fellow at the Ohio State University from 2004 to 2007. He received the Best Paper Award from IEEE Global Communications Conference (Globecom) in 2008, the Best Paper Award from IEEE International Conference on Communications (ICC) in 2011, the Faculty Early Career Development (CAREER) Award from the National Science Foundation in 2011, Northrop Young Researcher Award in 2012, and the Best Paper Award from IEEE International Conference on Smart Grid Communications (SmartGridComm) in 2012. He served as a guest editor for IEEE Journal on Selected Areas in Communications, Special Issue on Signal Processing Techniques for Wireless Physical Layer Security. He is currently serving as an editor for IEEE Transactions on Wireless Communications, and an associate editor for IEEE Transactions on Information Forensics and Security.

Joerg Widmer

Joerg Widmer is Research Professor as well as Research Director of IMDEA Networks in Madrid, Spain. His research focuses primarily on wireless networks, ranging from extremely high frequency millimeter-wave communication and MAC layer design to mobile network architectures. From 2005 to 2010, he was manager of the Ubiquitous Networking Research Group at DOCOMO Euro-Labs in Munich, Germany, leading several projects in the area of mobile and cellular networks. Before, he worked as post-doctoral researcher at EPFL, Switzerland on ultra-wide band communication and network coding. He was a visiting researcher at the International Computer Science Institute in Berkeley, CA, USA and University College London, UK. Joerg Widmer authored more than 150 conference and journal papers and three IETF RFCs, holds 13 patents, serves on the editorial board of IEEE Transactions on Communications, and regularly participates in program committees of several major conferences. He was awarded an ERC consolidator grant, the Friedrich Wilhelm Bessel Research Award of the Alexander von Humboldt Foundation, as well as a Spanish Ramon y Cajal grant, and is senior member of IEEE and ACM.