Call for Papers

Wireless Communications Track

The 23rd Asia-Pacific Conference on Communications

Perth, Australia, December 11-13, 2017

http://www.apcc2017perth.org/

Track Co-chairs

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Scope

The Wireless Communication Track at APCC 2017 aims to consolidate and disseminate the latest developments and advances in the area of wireless and mobile communications, with a focus on topics related to physical layer, MAC layer, and cross-layer and physical layer-related network analysis and design. In addition, papers on field tests and measurements, field trials and applications from both industries and academia are of special interest. Authors are invited to submit papers presenting novel technical studies as well as broader position and vision papers comprising hypothetical/speculative scenarios.

Topics of interest include (but not limited to)

- Vehicular to everything (V2X) communications
- Channel coding technologies for wireless communications
- Advanced equalization, channel estimation, and synchronization techniques
- Antennas, smart antennas, and space-time processing
- Broadband wireless access techniques, systems, and standards
- Channel modeling and propagation
- Cross-layer design and physical-layer based network issues
- Device-to-device and machine-to-machine communications
- Distributed, relay assisted, and cooperative communications
- Energy harvesting for wireless communications
- Heterogeneous and dense small-cell networks
- Interference characterization management, alignment, and cancellation
- Inter-cell interference coordination (ICIC) and coordinated multi-point (CoMP)
- Wireless localization techniques
- Maritime, space and underwater communications
- Millimeter wave and Terahertz communications

- MIMO, multi-user MIMO, and massive MIMO
- Modulation, coding, and diversity techniques
- Multiple access techniques and air interfaces
- OFDM and multi-carrier systems
- Performance analysis of wireless communication systems
- Physical-layer network coding
- Physical-layer security
- Radio resource management
- RFID and its applications
- Wireless communications testbeds, field tests, and measurements
- Wireless power transfer techniques

Important Dates

Paper Submission: 28 July 2017
Acceptance Notification: 31 August 2017
Camera-ready Paper: 30 September 2017
Conference: 11-13 December 2017

Short biography of Track Co-chairs

Guoqiang Mao (S'98-M'02-SM'08) received PhD in telecommunications engineering in 2002 from Edith Cowan University. He was with the School of Electrical and Information Engineering, the University of Sydney between 2002 and 2014. He joined the University of Technology Sydney in February 2014 as Professor of Wireless Networking and Director of Center for Real-time Information Networks. He has published about 200 papers in international conferences and journals, which have been cited more than 4000 times. He is an editor of the IEEE Transactions on Wireless Communications (since 2014), IEEE Transactions on Vehicular Technology (since 2010) and received "Top Editor" award for outstanding contributions to the IEEE Transactions on Vehicular Technology in 2011, 2014 and 2015. He is a co-chair of IEEE Intelligent Transport Systems Society Technical Committee on Communication Networks. He has served as a chair, co-chair and TPC member in a number of international conferences.

Sheng Zhou (S'06-M'12) received his B.S. and Ph.D. degrees in Electronic Engineering from Tsinghua University, China, in 2005 and 2011, respectively. He is now an associate professor in Electronic Engineering Department at Tsinghua University. From January to June 2010, he was a visiting student at Wireless System Lab, Electrical Engineering Department, Stanford University. From November 2014 to January 2015, he was a visiting researcher in Central Research Lab of Hitachi Ltd., Japan. His research interests include cross-layer design for multiple antenna systems, cooperative transmission in cellular systems, and green wireless communications. He is an associate editor of IEEE Wireless Communications Letters (since 2016).

Byonghyo Shim (SM'09) received the B.S. and M.S. degrees in control and instrumentation engineering from Seoul National University, Korea, in 1995 and 1997, respectively. He received the M.S. degree in mathematics and the Ph.D. degree in electrical and computer engineering from the University of Illinois at Urbana-Champaign (UIUC), USA, in 2004 and 2005, respectively. Since September 2014, he has been with School of Electrical and Computer Engineering, Seoul National University, where he is presently an Associate Professor. He has served as an Associate Editor of the IEEE Wireless Communications Letters, Journal of Communications and Networks, and a Guest Editor of the IEEE Journal on Selected Areas in Communications (JSAC).