

# Call for Papers for *Wireless Communications Symposium*

## **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 designs 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 the 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 areas:

- 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
- Digital broadcasting of audio (DAB), video (DVB), and multimedia (MBMS)
- Distributed, relay assisted, and cooperative communications
- Energy harvesting for wireless communications
- Heterogeneous and small-cell networks
- Hybrid communication systems (e.g. satellite/terrestrial/wireline hybrids)
- Interference characterization and applications of stochastic geometry
- Interference management, alignment, and cancellation
- Inter-cell interference coordination (ICIC) and coordinated multi-point (CoMP)
- 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
- Multiple access techniques and air interfaces (CDMA, TDMA, FDMA, OFDMA)
- OFDM and multi-carrier systems

## Sponsoring Technical Committees:

- Radio Communications
- Wireless Communications
- Communication Theory
- Signal Processing and Communications Electronics

## How to Submit a Paper:

The IEEE GLOBECOM 2017 website provides full instructions on how to submit papers. You will select the desired symposium when submitting. **The paper submission deadline is April 1, 2017.**

## Symposium Co-Chairs:

- Kaibin Huang, The University of Hong Kong, Hong Kong (Email: [huangkb@eee.hku.hk](mailto:huangkb@eee.hku.hk))
- Andrea Conti, University of Ferrara, Italy, (Email: [a.conti@ieee.org](mailto:a.conti@ieee.org))
- Yi Gong, Southern University of Science and Technology, Shenzhen, China, (Email: [gong.y@sustc.edu.cn](mailto:gong.y@sustc.edu.cn))
- Zhiguo Shi, Zhejiang University, Hangzhou, China, [shizg@zju.edu.cn](mailto:shizg@zju.edu.cn)
- Mohamed-Slim Alouini, King Abdullah University of Science and Technology, Saudi Arabia, (Email: [alouini@gmail.com](mailto:alouini@gmail.com))

## Biographies:



**Kaibin Huang** received the B.Eng. (first-class hons.) and the M.Eng. from the National University of Singapore, respectively, and the Ph.D. degree from The University of Texas at Austin (UT Austin), all in electrical engineering.

Since Jan. 2014, he has been an assistant professor in the Dept. of Electrical and Electronic Engineering (EEE) at The University of Hong Kong. He is an adjunct professor in the School of EEE at Yonsei University in S. Korea. He used to be a faculty member in the Dept. of Applied Mathematics (AMA) at the Hong Kong Polytechnic University (PolyU) and the Dept. of EEE at Yonsei University. His research interests focus on the analysis and design of wireless networks using stochastic geometry and multi-antenna techniques.

He frequently serves on the technical program committees of major IEEE conferences in wireless communications. He will be the lead chair for the Wireless Comm. Symp. of IEEE Globecom 2017 and has been the technical chair/co-chair for the IEEE CTW 2013, the Comm. Theory Symp. of IEEE GLOBECOM 2014, and the Adv. Topics in Wireless Comm. Symp. of IEEE/CIC ICC 2014 and has been the track chair/co-chair for IEEE PIMRC 2015, IEE VTC Spring 2013, Asilomar 2011 and IEEE WCNC 2011. Currently, he is an editor for the newly established IEEE Transactions on Green Communications and Networking, and IEEE Transactions on Wireless Communications. He was an editor for IEEE Journal on Selected Areas in Communications (JSAC) series on Green Communications and Networking in 2015-2016, for IEEE Wireless Communications Letters in 2011-2016, and for for IEEE/KICS Journal of Communication and Networks in 2009-2015. He has edited a JSAC 2015 special issue on communications powered by energy harvesting. He was an elected member of the SPCOM Technical Committee of the IEEE Signal Processing Society in 2012-2015. Dr. Huang received the 2015 IEEE ComSoc Asia Pacific Outstanding Paper Award, Outstanding Teaching Award from Yonsei, Motorola Partnerships in Research Grant, the University Continuing Fellowship from UT Austin, and a Best Paper Award from IEEE GLOBECOM 2006 and PolyU AMA in 2013.



**Mohamed-Slim Alouini** was born in Tunis, Tunisia. He received the Ph.D. degree in Electrical Engineering from the California Institute of Technology (Caltech), Pasadena, CA, USA, in 1998. He served as a faculty member in the University of Minnesota, Minneapolis, MN, USA, then in the Texas A&M University at Qatar, Education City, Doha, Qatar before joining King Abdullah University of Science and Technology (KAUST), Thuwal, Makkah Province, Saudi Arabia as a Professor of Electrical Engineering in 2009.

His current research interests include the modeling, design, and performance analysis of wireless communication systems.



**Yi Gong** received his PhD degree from the Hong Kong University of Science and Technology (HKUST), Hong Kong, in 2002. Currently, he is a Professor at the Department of Electrical and Electronic Engineering, Southern University of Science and Technology (SUSTech). Prior to his current appointment, he was employed with Nanyang Technological University (NTU), Singapore, and the Hong Kong Applied Science and Technology Research Institute (ASTRI), Hong Kong. He has been on the editorial board of IEEE Transactions on Wireless Communications (2006-2010) and IEEE Transactions on Vehicular Technology (2009-present). His research lies in the field of wireless communications and communication theory. In particular, he is very interested in the problems of design, analysis, and optimization of wireless communication systems. His current research areas include multi-antenna and cooperative communications, cognitive and full-duplex radio, wireless energy harvesting, and physical layer security.



**Andrea Conti** received the Laurea degree (summa cum laude) in telecommunications engineering and the Ph.D. degree in electronic engineering and computer science from the University of Bologna, Italy, in 1997 and 2001, respectively.

In 2005, he joined the University of Ferrara, Italy, where he is an Associate Professor. He was with CNIT and with IEIIT/CNR at the Research Unit of Bologna. In Summer 2001, he was with the Wireless Systems Research Department at AT&T Research Laboratories. Since 2003, he has been a frequent visitor to the Wireless Information and Network Sciences Laboratory at MIT, where he presently holds the Research Affiliate appointment. His research interests involve theory and experimentation of wireless systems and networks including network localization, adaptive diversity communications, cooperative relaying techniques, interference characterization, and sensor networks. He is recipient of the HTE Puskás Tivadar Medal and co-recipient of the IEEE ComSoc's Stephen O. Rice Prize and the IEEE ComSoc's Fred W. Ellersick Prize.

Dr. Conti served as an editor for IEEE Journals and as Technical Program Chair/Vice-Chair for IEEE conferences. He was elected Chair of the IEEE ComSoc's Radio Communications Technical Committee and selected as an IEEE Distinguished Lecturer.



**Zhiguo Shi** received the B.S. and Ph.D. degrees in electronic engineering from Zhejiang University, Hangzhou, China, in 2001 and 2006, respectively. Since 2006, he has been a Faculty Member with the Department of Information and Electronic Engineering, Zhejiang University, where he is currently a Full Professor. From 2011 to 2013, he was visiting the Broadband Communications Research Group, University of Waterloo, Waterloo, ON, Canada. His current research interests include signal and data processing for communications, radar, and network.

Prof. Shi was a recipient of the Best Paper Award from the IEEE Wireless Communications and Networking Conference 2013, Shanghai, China; the IEEE/CIC International Conference on Communications in China 2013, Xi'an, China; the IEEE Wireless Communications and Signal Processing 2012, Huangshan, China. He also received the 2014 IEEE Industrial Electronics Society Student Best Paper Award, the First Prize for Science and technology Achievement of the Chinese Ministry of Education, and the Scientific and Technological Award of Zhejiang Province, China, in 2012. Now he is serving as an Editor for the *IEEE Network*, *IET Communications*, and *KSII Transactions on Internet and Information Systems*.