

# Call for papers for Wireless Communications Symposium, IEEE Globecom 2010

## Symposium Co-chairs

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## Sponsoring Technical Committees

- Wireless Communications
- Radio Communications
- Satellite & Space Communications
- Signal Processing & Communications Electronics
- Communication Theory
- Ad hoc and Sensor Networks

## Scope and Topics of Interest

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. Of special interest are papers reporting on novel and practical solutions to physical layer and cross-layer design in wireless communication systems, field tests and measurements, and applications. To ensure complete coverage of the advances in wireless communications technologies for current and future systems, the Wireless Communications Symposium presents original contributions in, but not limited to, the following topical areas:

- Wireless Air Interface and Link Control
- Modulation, coding, and diversity techniques for wireless
- Cognitive radio and software defined radio
- Ultra-wideband communications (UWB)
- MIMO and multi-antenna communications
- Space-time coding and processing
- OFDM and multi-carrier systems
- Smart Antennas
- CDMA, TDMA, FDMA air interfaces
- Detection and estimation
- Cross-layer Design and Physical layer based Network Issues

- PHY-Layer Security
- Localization Techniques
- Distributed multipoint, relay assisted, and cooperative communications
- Wireless communications testbed development
  - Cross-layer design
  - Network coding
  - Opportunistic scheduling
  - Wireless multicasting
  - Hybrid wireless communication systems
  - Broadband wireless access
  - Physical-layer aspects of wireless LANs and PANs
  - 4G mobile network architectures
  - Physical-layer aspects of GPRS, EDGE, 3GPP, IMT2000, UMTS
  - DVB and DAB techniques
  - Physical-layer aspects of cellular networks
  - Coexistence in unlicensed spectra
  - Resource allocation and interference management
  - Fixed wireless broadband data systems
  - Bluetooth technologies and applications
  - Spectrum efficiency and issues
  - Wireless system optimization techniques
  - Wireless multimedia
  - Multiple access techniques
  - Integration between satellite and terrestrial wireless networks

## Submission Guidelines

Prospective authors are invited to submit original technical papers by the deadline 15 March 2010 for publication in the *IEEE GLOBECOM* 2010 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 overlength 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

### Jalel Ben-Othman

Dr. Ben-Othman received his B.Sc. and M.Sc. degrees both in Computer Science from the University of Pierre et Marie Curie, (Paris VI) France in 1992, and 1994 respectively. He received his PhD degree from the University of Versailles, France, in 1998. He was an Assistant Professor at the University of Orsay (Paris 11) and University of Pierre et Marie Curie (Paris 6), in 1998 and 1999 respectively. He is now an Associate Professor at the University of Versailles since 2000.

Dr. Ben-Othman research interests are in the area of wireless ad hoc and sensor networks, Broadband Wireless Networks, multi-services bandwidth management in WLAN (IEEE 802.11), WMAN (IEEE 802.16), WWAN (LTE), security in wireless networks in general and wireless sensor and ad hoc networks in particular. His work appears in highly respected international journals and conferences, including, IEEE ICC, Globecom, LCN, VTC, PIMRC etc...

He has supervised and co-supervised several graduate students in these areas. His widely known for his work on wireless ad hoc and sensor network, in particular security. Since 2002, he has served as Technical committee of

more than 20 international IEEE/ACM conferences and workshops including ICC, Globecom, MSWIM, LCN, etc... He is a member of IEEE and ACM.

He is also serving as the Local Arrangement Chair for the 13<sup>th</sup> IEEE International Symposium on Computer Communication (ISCC 09). He serves as a TPC Co-Chair of 9th international Workshop on Wireless local Networks (WLN09), as a publicity chair of 12-th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWIM 09) and he serves as a TPC Co-Chair of IEEE Globecom Wireless Communications Symposium (2010). And he is active member of IEEE TC AHSN. He is IEEE/ACM member.

### **Jun Cai**

Jun Cai received the B.Sc. (1996) and the M.Sc. (1999) degrees from Xi'an Jiaotong University (China) and Ph.D. degree (2004) from University of Waterloo, Ontario (Canada), all in electrical engineering. From June 2004 to April 2006, he was with McMaster University as NSERC Postdoctoral Fellow. Since July 2006, he has been with the Department of Electrical and Computer Engineering, University of Manitoba, Canada, where he is an Assistant Professor. His current research interests include multimedia communication systems, mobility and resource management in 3G beyond wireless communication networks, cognitive radios, and ad hoc and mesh networks. He was a registration chair of the First International Conference on Heterogeneous Networking for Quality, Reliability, Security and Robustness (QShine) 2005, a technical program committee co-chair of the International Wireless Communications and Mobile Computing Conference (IWCMC) 2008 General Symposium and IEEE Globecom 2010 Wireless Communication Symposium, and a technical program committee member for several IEEE and other international conferences in wireless communications and networks. He is currently the NSERC Associate Industrial Research Chair.

### **Andrea Conti**

Andrea Conti received the Dr.Ing. degree 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. Since 2005, Dr. Conti is assistant professor at the University of Ferrara, Italy. Prior to joining the University of Ferrara he was with Consorzio Nazionale Interuniversitario per le Telecomunicazioni (CNIT, 1999-2002) and Istituto di Elettronica e di Ingegneria dell'Informazione e delle Telecomunicazioni, Consiglio Nazionale delle Ricerche (IEIIT/CNR, 2002-2005) at the Research Unit of Bologna, Italy.

In summer 2001, he joined the Wireless Section of AT&T Research Laboratories, Middletown, NJ. Since February 2003, he has been a frequent visitor at the Laboratory for Information and Decision Systems (LIDS), Massachusetts Institute of Technology (MIT), Cambridge, where he is presently research affiliate.

His current research interests are in the area of wireless communications including localization, adaptive transmission and multichannel reception, coding in faded multiple-input multiple-output channels, wireless cooperative networks, and wireless sensor networks.

Dr. Conti is an Editor for the IEEE Transactions on Wireless Communications and was Lead Editor for Eurasip JASP (S.I. on Wireless Cooperative Networks, 2008). He is currently serving as secretary of IEEE RCC for the period 2008-2010.

### **Jianwei Huang**

Jianwei Huang received the B.S. degree in radio engineering from Southeast University (Nanjing, China) in 2000, and the M.S. and Ph.D. degrees in electrical and computer engineering from Northwestern University (Evanston, USA) in 2003 and 2005, respectively. He is currently an Assistant Professor in the Department of Information Engineering at the Chinese University of Hong Kong. He was a Postdoctoral Research Associate at Princeton University (Princeton, USA) during 2005-2007. He had summer internships in Motorola Inc. (Arlington Heights, USA) in 2004 and 2005. He conducts research in the area of nonlinear optimization and game theoretical analysis of communication networks, with current focus on network economics, cognitive radio networks, broadband communication networks, and multimedia over wireless.

Dr. Huang has served as an Associate Editor of (Elsevier) Journal of Computer and Electrical Engineering (2007-2010), a Lead Guest Editor of Journal of Communications (2009), a Lead Guest Editor of IEEE Journal on Selected Areas in Communications (2008), and a Lead Guest Editor of (Hindawi) Journal of Advances in Multimedia (2007). He serves as a TPC Co-Chair of IEEE Globecom Wireless Communications Symposium (2010) and a TPC Co-Chair of International Conference on Game Theory for Networks (2009). He was the recipient of a 2001 Walter P.

Murphy Fellowship at Northwestern University and a 1999 Chinese National Excellent Student Award. He is a member of IEEE.

#### **Sana SFAR**

Sana SFAR received her Ph. D and MPhil degrees in 2005 and 2001, respectively, in [Electrical and Electronic Engineering](#) from [The Hong Kong University of Science and Technology](#) (HKUST) with focus on wireless communications. She received her Engineering Diploma in Telecommunications *with Excellency* in 1999 from [École Supérieure des Communications de Tunis, Tunisia](#), (SupCom) with focus on multimedia and networking. Currently she is a research engineer at Advanced Air Interface Department of Interdigital Communications. Prior to that, she was a visiting researcher at Lehigh University, PA in collaboration with Bell-labs, Alcatel-Lucent. Her current research interests are in the area of wireless communication systems and communication theory. These include wireless and mobile networks, cellular and ad-hoc networks, relaying, multiple antennae and space-time techniques, future wireless generations, etc.

#### **Liuqing Yang**

Dr. Liuqing Yang received her Ph.D. degree from the University of Minnesota in 2004. Since August 2004, she has been an assistant professor with the Department of Electrical and Computer Engineering at the University of Florida, Gainesville. Her general interests are in areas of communications and signal processing. Dr. Yang was the recipient of the Best Dissertation Award in the Physical Sciences & Engineering from the University of Minnesota in 2004, the Best Paper Award at the IEEE International Conference on UWB in 2006, the AFOSR Summer Faculty Fellowship in 2007, the ONR YIP award in 2007, and the NSF CAREER award in 2009. She is currently serving as an active reviewer for more than 10 journals, as TPC chair/member for a number of conferences, and as an associate editor for IEEE Transactions on Communications, IEEE Transactions on Wireless Communications, IEEE Transactions on Intelligent Transportation Systems, Signal, Image and Video Processing Journal, and PHYCOM: Physical Communication. Dr. Yang is a senior IEEE member, and has been the co-chair of the Mobile Communication Networks technical committee of the IEEE ITSS and the vice chair of the IEEE Gainesville section since 2006.