



Bridging the Broadband Divide
9-13 June • Budapest, Hungary



Communication Theory Symposium

Symposium Co-Chairs

David Gesbert, EURECOM

Email: david.gesbert@eurecom.fr

Angel Lozano, Universitat Pompeu Fabra

Email: angel.lozano@upf.edu

Sennur Ulukus, University of Maryland

Email: ulukus@umd.edu

Velio Tralli, Università di Ferrara

Email: velio.tralli@unife.it

The 2013 IEEE International Conference on Communications (ICC) will be held in the vibrant city of Budapest, Hungary from 9 – 13 June 2013. This flagship conference of IEEE Communications Society aims at addressing an essential theme on “Bridging the Broadband Divide.” The conference will feature a comprehensive technical program including several Symposia and a number of Tutorials and Workshops. IEEE ICC 2013 will also include an attractive expo program including keynote speakers, various Business, Technology and Industry forum, and vendor exhibits. We invite you to submit your original technical papers, industry forum, workshop, and tutorial proposals to this event. Accepted and presented papers will be published in the IEEE ICC 2013 Conference Proceedings and in IEEE Xplore®. Full details of submission procedures are available at <http://www.ieee-icc.org/2013>.

Scope and Topics of Interest

The Communication Theory Symposium will focus on the fundamentals of communications, with emphasis on wireless and wireline communications. The symposium welcomes original research works in these general areas, focusing on the physical layer as well as on the interactions with higher layers. Research papers on communication theory that relate to networking, genetics, bioinformatics, and quantum information processing are also welcome.

To ensure complete coverage of the advances in this field, the Communication Theory Symposium solicits original contributions in, but not limited to, the following topical areas:

- Adaptive Modulation and Coding
- Channel Estimation
- Coding Theory
- Communication Theory in Ad-Hoc and Sensor Networks
- Cognitive Radio

- Cooperative Communications
- Cross Layer Design
- Detection and Estimation
- Distributed Processing
- Diversity
- Dynamic Spectrum Management
- Energy Efficient Communication
- Feedback in Communications
- Fiber Optical Communications
- Free-Space Optical Communications
- Interference Management
- Iterative Techniques, Detection and Decoding
- Joint Source/Channel Coding
- Multicarrier Transmission
- Multiple Access
- Multiple-Input Multiple-Output (MIMO) Communications
- Multiuser Detection
- Network Coding
- Network Information Theory
- Orthogonal Frequency Division Multiplexing (OFDM)
- Physical-Layer Security
- Radio Resource Management
- Source Coding and Data Compression
- Space-time Coding and Processing
- Synchronization
- Turbo and LDPC Codes
- Ultrawideband Communications

Submission Guidelines

Prospective authors are invited to submit original technical papers by the deadline 16 September 2012 for publication in the IEEE ICC 2013 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 over length 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/>

David Gesbert (IEEE Fellow) is Professor and Head of the Mobile Communications Department, EURECOM, France. He obtained the Ph.D. degree from Ecole Nationale Supérieure des Telecommunications, France, in 1997. From 1997 to 1999 he was with the Information Systems Laboratory, Stanford University. In 1999, he was a founding engineer of Iospan Wireless Inc, San Jose, Ca., a startup company pioneering MIMO-OFDM (now Intel). Prof. Gesbert has published over 200 papers and several patents all in the area of signal processing, communications, and wireless networks.

Angel Lozano is a Professor of Information and Communication Technologies at Universitat Pompeu Fabra (UPF) in Barcelona, Spain. He is also UPF's Vice-Rector for Research. Prof. Lozano received an Engineering degree from UPC, Spain, in 1992 and the M.S. and Ph.D. degrees in Electrical Engineering from Stanford University in 1994 and 1998, respectively. In 1999, he joined Bell Labs (Lucent Technologies, now Alcatel-Lucent) in Holmdel, NJ, where he was a member of the Wireless Communications Research Department until 2008. Between 2005 and 2008 he was also an Adjunct Associate Professor of Electrical Engineering at Columbia University, NY, USA. Prof. Lozano was elected to the Board of Governors of the IEEE Communications Society for the term 2012-2014.

Sennur Ulukus is a Professor of Electrical and Computer Engineering at the University of Maryland at College Park, where she also holds a joint appointment with the Institute for Systems Research (ISR). Prior to joining UMD, she was a Senior Technical Staff Member at AT&T Labs-Research. She received her Ph.D. degree in Electrical and Computer Engineering from Wireless Information Network Laboratory (WINLAB), Rutgers University, and B.S. and M.S. degrees in Electrical and Electronics Engineering from Bilkent University. Her research interests are in wireless communication theory and networking, network information theory for wireless communications, signal processing for wireless communications, information-theoretic physical-layer security, and energy-harvesting communications.

Velio Tralli obtained the Ph.D. degree in Electronic Engineering and Computer Science from the University of Bologna, Bologna, Italy, in 1993. From 1994 to 1999, he was a researcher of CNR at CSITE, University of Bologna and assistant professor at the university of Ferrara, Italy. Since 2001, he is an associate professor at the University of Ferrara. His research interests are mainly concerned with wireless communication, digital transmission and coding. He has published more than 100 papers in refereed journals and international conferences. He is a Senior Member of the IEEE.