



## CALL FOR PAPERS

### COMMUNICATION THEORY SYMPOSIUM

#### Symposium Co-Chairs

Nallanathan Arumugam, King's College London, UK  
arumugam.nallanathan@kcl.ac.uk

Sang Wu Kim, Iowa State University, USA  
swkim@iastate.edu

Lian Zhao, Ryerson University, Canada  
lzhao@ee.ryerson.ca

#### Scope and Topics of Interest

The mission of the Communication Theory Symposium is to explore the fundamentals of communication systems. The symposium welcomes original research in these general areas focusing on the physical-layer as well as interactions with higher-layers. Sample topics are listed below:

- Adaptive modulation and coding
- CDMA and spread spectrum theory
- Coding theory
- Cooperative communications
- Detection and estimation theory
- Diversity and fading countermeasures
- Feedback in communication systems
- Fundamentals of femtocell and picocell-enhanced cellular networks
- Information theory and channel capacity
- Interference management, cancellation, alignment, and avoidance
- Iterative techniques, detection, and decoding
- Joint source/channel coding
- Multiple-access techniques
- Multiple-input multiple-output (MIMO) theory, systems design, and analysis
- Multiuser diversity
- Network and multiuser information theory
- Network coding
- Physical-layer security
- Source coding and data compression
- Space-time coding
- Theoretical aspects of ad hoc and sensor networks
- Theoretical aspects of channel estimation and synchronization
- Theoretical aspects of cognitive radio and dynamic spectrum management
- Theoretical aspects of cross-layer design
- Theoretical aspects of fiber-optical communications and free-space optical communications
- Theoretical aspects of power line communications
- Theory of compressed sensing
- Theory of orthogonal frequency division multiplexing (OFDM) and multi-carrier systems

- Theory of ultra-wideband communications
- 60 GHz and sub-terahertz communications theory

## **Submission Guidelines**

Prospective authors are invited to submit original technical papers by the deadline of **15 March 2013** for publication in the IEEE Globecom 2013 Conference Proceedings and for presentation at the conference. Submissions will be accepted through EDAS. All submissions must be written in English and be at most six (6) printed pages in length, including figures. For full details, please visit the following website:

<http://www.ieee-globecom.org/2013/submguide.html>