



## Call for Papers for *Selected Areas in Communications Symposium* *- Satellite and Space Communications Track-*

### **Scope and Motivation:**

The recent advances of satellite communication technology have witnessed an unprecedented increase of services possibly distributed according to anywhere-anytime paradigm. To this regard, the appearance of new standards and the simultaneous integration with terrestrial infrastructure has introduced new technical challenges to be faced by the scientific community.

The Satellite and Space Communications track solicits original and unpublished work not currently under review by any other conference or journal. The focus of this track is on exploring and discussing new technical breakthroughs and applications focusing on all aspects of satellite and space communications.

### **Main Topics of Interest:**

- Satellite and space communications and networking
- Near-Earth satellite communications
- Antennas for Satellite Communications
- MIMO satellite communications
- Hybrid satellite/terrestrial networks
- Coding, modulation and synchronization schemes for satellite communications
- Channel models for satellite communications
- Reliable multicast protocols for satellite networks
- Transport protocol performance over satellite
- Game theory applications in satellite networks

- Security, privacy, and trust in satellite networks
- Radio resource management in satellite networks
- Emerging standards: DVB-SX, DVB-SH, DVB-RCS2, IP over Satellite
- Cognitive satellite networks
- Delay Tolerant Networking for satellite networks
- Cross-layer air interface design
- On-board switching and processing technologies
- QoS and performance for satellite networks
- Fade mitigation techniques over satellite channels
- Special protocols for nano-satellites
- Nano-satellites communications
- Nano-Satellite constellation design
- M2M over satellite applications
- Geographic information systems
- Wireless positioning technologies and applications
- Signal detection and estimation for satellite communications
- RF engineering for satellite communications
- Statistical and adaptive signal processing for satellite systems
- Satellite-based disaster recovery
- Satellite-based remote e-Health
- Satellite based alarm systems
- Satellite-based solutions for aeronautical applications
- Interplanetary communications
- Next-generation channel coding for deep-space communications

**Sponsoring Technical Committees:**

- Satellite and Space Communications (SSC)

## How to Submit a Paper:

The IEEE Globecom 2014 website provides full instructions on how to submit papers. You will select the desired symposium when submitting. **The paper submission deadline is April 1, 2014. Unlike recent ICC's and Globecom's, this is a hard deadline that will not be extended.**

## Symposium Track-Chair:

Tomaso de Cola, German Aerospace Center (DLR), Germany, [Tomaso.decola@dlr.de](mailto:Tomaso.decola@dlr.de)

**Tomaso de Cola** was born in Manosque, France, on April 28, 1977. He received the “Laurea” degree (with honors) in telecommunication engineering, in 2001, the Qualification degree as Professional Engineer in 2002 and the Ph. D. degree in Electronic and Computer Engineering, Robotics and Telecommunications in 2010 from the University of Genoa, Italy.

From 2002 until 2007, he has worked with the Italian Consortium of Telecommunications (CNIT), University of Genoa Research Unit, as scientist researcher. Since 2008, he has been with the German Aerospace Centre (DLR), where he is involved in different European Projects focusing on different aspects of DVB standards, CCSDS protocols and testbed design. He is co-author of more than 30 papers, including international conferences and journals. His main research activity concerns: TCP/IP protocols, satellite networks, transport protocols for wireless links, interplanetary networks as well as delay tolerant networks.

Dr. de Cola served on the Technical Program Committee at several IEEE International Conferences. He is member of the IEEE Communications Society and secretary of the Satellite and Space Communications (SSC) technical Committee (TC) within Comsoc.

