

**CALL FOR PAPERS -- IEEE GLOBECOM 2011**  
**Selected Areas in Communications Symposium**  
**Satellite and Space Communications Track**

**Track Chair**

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**Scope and Motivation**

Recognizing the facts that many of wireless technologies used today are based on the efforts started by satellite communications researchers four decades ago, the right idea properly studied in satellite communications can create a new paradigm in wireless technology.

The Satellite and Space Communications track solicits original and unpublished work not currently under review by any other conference or journal.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 targeted at exploring and discussing new technical breakthrough and applications focusing on all aspects related to satellite and space communications.

**Main Topics of Interest, but not limited to**

**Air Interface over Satellite Networks**

- Adaptive coding modulation for satellite communication networks
- Fading countermeasures over satellite networks
- Satellite channel management
- Power and bandwidth allocation solutions over satellite networks
- Emerging standards: DVB-S2, DVB-RCS, IP over Satellite
- RF design for satellite communications
- Spread spectrum and multicarrier techniques for satellite communications
- Software radio for satellite communications
- Phased array for satellite communications

**Internetworking, Architecture, Protocols and Applications in Satellite Networks**

- PEP architectures and solutions
- QoS-oriented solutions for DVB-S2, DVB-RCS, IP over satellite
- Satellite gateways optimization algorithms
- Security in satellite and hybrid networks
- New protocols for delay tolerant networks
- Deep-space communications
- Gigabit connectivity via satellite

- Convergence and integration among satellite networks and terrestrial wireless networks
- Satellite technology for mobile services
- Satellite communications and "Digital Divide" issues
- Satellite navigation systems

#### Control and Algorithms for Satellite Networks

- Satellite network control and management
- Control architectures and algorithms for satellite and heterogeneous internetworking
- Control schemes for resource allocation over satellite channels
- Satellite communication
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#### New paradigm in Satellite and Space Communications

- Quantum communication in Space
- Satellite communication using laser
- Satellite/terrestrial frequency sharing
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#### Technical Program Committee

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