



Call for Papers for *Selected Area in Communications Symposium* *Satellite & Space Communication Area*

Submission Deadline

March 15, 2012

Scope and Motivation:

The IEEE GLOBECOM 2012 Selected Areas in Communications Symposium focuses on new and emerging communication technologies, including areas that are not directly addressed in any individual symposia. It offers an open forum for academic and industrial researchers to exchange the latest technical information and research findings on novel concepts, technologies, systems, and applications in the following areas: (a) E-Health, (b) Power Line Communications, (c) Smart Grids, (d) Tactical Communications and Operations, (e) **Satellite & Space Communication**, and (f) Access Networks.

Topics of Interest

Prospective authors are invited to submit their original work addressing new and emerging issues in communications and networking on the above themes. Submissions are welcome from academia, industry, and government organizations. Topics of interest of **Satellite & Space Communication Area** include, but are 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
- Integrated service for disaster relief

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

New paradigm in Satellite and Space Communications

- Quantum communication in Space
- Satellite communication using laser
- Satellite/terrestrial frequency sharing
- Earth observation systems and applications

Track Chair:

Hiromitsu Wakana (Satellite & Space Communication Area)

Distinguished Researcher

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