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

Symposium Track Chair

Song Guo   University of Aizu, Japan, sguo@u-aizu.ac.jp

Submissions must be done through EDAS at http://edas.info/N20933

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.

Main Topics of Interest
The Satellite and Space Communications track solicits original and unpublished work not currently under review by any other conference or journal.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. The Satellite and Space Communications track solicits original contributions in, but not limited to, the following topical areas:

- Cross-layer design, modeling and optimization for satellite and space communications
- 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
- QoS and performance for satellite networks
- On-board switching and processing technologies
- 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 over satellite
- Signal detection and estimation for satellite communications
- RF engineering for satellite communications

- Statistical and adaptive signal processing for satellite systems
- Satellite communications for maritime applications (e.g., AIS)
- 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

Biography of Track Chair

Song Guo (M'02-SM'11) received the PhD degree in computer science from the University of Ottawa, Canada. He is currently a Full Professor at School of Computer Science and Engineering, the University of Aizu, Japan. His research interests are mainly in the areas of wireless communication and mobile computing. He has published over 250 papers in refereed journals and conferences in these areas and received three IEEE/ACM best paper awards. Dr. Guo currently serves as Associate Editor of IEEE Transactions on Parallel and Distributed Systems and IEEE Transactions on Emerging Topics in Computing, and Secretary of IEEE ComSoc Satellite and Space Communications Technical Committee. He has also been in organizing and technical committees of numerous international conferences and workshops. Dr. Guo is a senior member of the IEEE and the ACM.