



Call for Papers for Symposium on Selected Areas in Communications *Satellite & Space Communications Track*

TRACK CHAIR:

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SCOPE AND MOTIVATION:

The recent advances in satellite communication technology have witnessed an unprecedented increase in services possibly distributed according to an anywhere-anytime paradigm. In 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. In particular, the integration of satellites with the future terrestrial networks has further motivated the study of new networking and communication paradigms and attracted significant interest from both academic and industrial communities. The Satellite and Space Communications (SSC) track solicits original and unpublished work not currently under review by any other conference or journal.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.

TOPICS OF INTEREST:

To ensure complete coverage of the advances in this field, the SSC Track of the SAC Symposium solicits original contributions in, but not limited to, the following topical areas:

- Satellite and space communications and networking
- Near-Earth satellite communications
- Interplanetary communications
- Nano-satellites communications
- Satellite-terrestrial integrated networks
- Cognitive satellite networks
- Joint communications and sensing in satellite networks
- MIMO satellite communications
- Antennas for satellite communications
- Channel models for satellite communications
- Coding, modulation and synchronization schemes for satellite communications

- Signal detection and estimation for satellite communications
- Statistical and adaptive signal processing for satellite systems
- Transport protocol performance over satellite
- Security, privacy, and trust in satellite networks
- Radio resource management in satellite networks
- Software-defined networking (SDN) and Network function virtualization (NFV) in satellite systems
- Delay tolerant networking for satellite networks
- QoS and performance for satellite networks
- On-board switching and processing technologies
- Interference and fade mitigation techniques over satellite channels
- Mega-constellations design
- M2M / IoT over satellite architectures, transmission technologies, systems and applications
- New standards in navigation systems: Galileo, GPS, SBAS (EGNOS, WAAS...), GBAS
- Emerging standards: DVB-Sx, DVB-SH, DVB-RCS2, IP over Satellite
- Satellite-based disaster recovery
- Satellite-based remote e-Health
- Satellite-based solutions for aeronautical applications
- Satellite communications for maritime applications, e.g., AIS
- Next-generation channel coding for deep-space communications
- Telemetry/telecommand space protocol evolutions
- Architecture and key techniques for space information networks
- Space optical wireless communications
- Internet of remote things
- Application of machine learning and artificial intelligence in satellite networks

IMPORTANT DATES:

Deadline for paper submission: 11 October 2021

Date for notification: 18 January 2022

Deadline for final paper submission: 15 February 2022