



IEEE Global Communications Conference

7-11 December 2021 • Madrid, Spain

Connecting Cultures around the Globe

SELECTED AREAS IN COMMUNICATIONS SYMPOSIUM

SATELLITE AND SPACE COMMUNICATIONS TRACK

SYMPOSIUM CHAIRS AND CO-CHAIRS

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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 aerial or terrestrial infrastructure have introduced new technical challenges for the scientific community. In particular, the integration of satellite with future aerial or terrestrial networks has further motivated the study of new networking and communication paradigms, and attracted significant interest from both academic and industrial communities.

TOPICS OF INTEREST

The Satellite and Space Communications track solicits original and unpublished works that are not currently under review by any other conferences or journals.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

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 topics:

- Satellite and space communications and networking
- Near-earth satellite communications
- Interplanetary communications
- Nano-satellites communications
- Satellite-aerial-terrestrial integrated 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 of satellite networks
- On-board switching and processing technologies
- Interference and fade mitigation techniques over satellite channels
- Mega-constellations design
- M2M over satellite applications
- New standard 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

IMPORTANT DATES

Deadline for paper submission: 15 April 2021

Date for notification: 25 July 2021

Deadline for final paper submission: 1 September 2021

SUBMISSION INSTRUCTIONS

All papers for technical symposia should be submitted via EDAS through the following link

<https://edas.info/newPaper.php?c=27499&track=102701>