

9th Advanced Satellite Multimedia Conference 15th Signal Processing for Space Communications Workshop 2018 September 10th – 12th, Berlin (Germany) CALL FOR PAPERS

The 9th Advanced Satellite Multimedia Systems Conference and the 15th Signal Processing for Space Communications Workshop are jointly organised by the DLR Institute for Communications and Navigation, the European Space Agency and the University of Bologna. The leitmotiv of the event will be the role of satellite communications within 5G, under the motto **SatCom meets 5G!**

Building upon the renowned tradition of the two events, this joint conference is an outstanding opportunity for industry and research institutions to get the latest updates and to exchange information about recent advances and emerging technologies for mobile, broadband and broadcast satellite communication systems.

A major novelty of the 2018 edition is the introduction of two separate tracks:

- **Track A** with stronger focus on theoretical advances with relatively low TRL and requiring full paper submission. Papers accepted within this track will appear on IEEE Xplore
- **Track B** addressing mainly industrial developments with higher level of technological maturity based on extended abstract submission.

ASMS General Co-Chairs

Sandro Scalise, DLR

Alessandro Vanelli-Coralli, Univ. of Bologna

SPSC General Co-Chairs

Aberto Ginesi, ESA

Domenico Mignolo, ESA

TPC and Publication Co-Chairs

Stefano Cioni, ESA

Tomaso De Cola, DLR

Alessandro Guidotti, Univ. of Bologna

Panel and Tutorial Chairs

Martina Angelone, ESA

Gianluigi Liva, DLR

Daniele Tarchi, Univ. of Bologna

Industrial Co-Chairs

Jean-Pierre Choffray, SES

Nicolas Chuberre, Thales Alenia Space

Regional Chair for Americas

Bassel F. Beidas, Hughes

Regional Chair for Oceania

Sarah Johnson, Univ. of Newcastle

Regional Chair for Asia

Song Guo, Hong Kong Polytechnic Univ.

Topics of interest include:

Theory, Techniques, and Technologies

- Coding, modulation and synchronization schemes
- Multiple Access techniques (OMA, NOMA) for satellite communications
- Network Coding and bandwidth saving techniques
- MIMO, multi-user detection & diversity techniques
- Fading and interference advanced mitigation techniques
- Linear and non-linear channel distortion countermeasures
- Advanced signal processing for communications and GNSS
- Propagation measurements and channel models
- Network slicing and radio resource management
- QoS/QoE management and users' scheduling
- Advanced on board processing techniques, satellite payload design and optimisation
- Optical free space analogue and digital communications
- MEC and cloud/fog computing approaches for integrated 5G-satellite networks
- SDN/NFV principles for orchestration of integrated 5G-satellite networks
- Caching and future Internet architectures (CDN/ICN)

Systems and Applications

- Integrated 5G satellite networks
- Massive M2M/IoT over satellite
- Antennas and user-terminal technologies
- Next generation mobile, broadband and broadcast satellite systems
- Mega Constellations and High Altitude Platforms
- Satellite-based solutions for safety critical communications (aeronautical, maritime, railways)
- User requirements, business and market analysis of SatCom systems
- Standardization and regulatory issues
- Satellite demonstrations and trials including performance assessment of existing systems
- High Speed point-to-point professional links (Backhauling, Trunking, DSNG, ...)

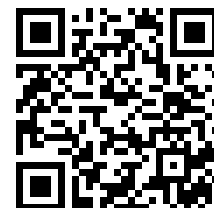
Important dates

Full Paper (Track A) or Extended Abstract (Track B) submission via EDAS using IEEE Format:
21 May 2018

Acceptance notice:
30 June 2018

Final manuscript due:
31 July 2018

For further information, please visit
<https://www.asmsconference.org/front/>
or contact
tomaso.decola@dlr.de



Conference Venue:

The joint event will be held at the DIN (German Institute for Standardization) premises, located in the very city centre of Berlin, the capital and largest city of Germany as well as a world city of culture, politics, media and science, especially high-tech companies.

Co-organized by:

Technical Sponsorship:

Organization Support:

