8th Advanced Satellite Multimedia Systems Conference
14th Signal Processing for Space Communications Workshop

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5 - 7 September 2016 · Palma de Mallorca · Spain

The 8th Advanced Satellite Multimedia Systems Conference and the 14th Signal Processing for Space Communications Workshop has been initiated by the DEIS and ARCES Institutions of the University of Bologna, the DLR Institute for Communications and Navigation and the European Space Agency. The event will be organised by Centre Tecnològic Telecomunicacions Catalunya and Universitat Autònoma de Barcelona, and endorsed by the he SatNEx Network of Experts.

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.

Topics of interest include, but are not limited to:

**Theory, Techniques, and Technologies**
- Coding, modulation, and synchronization schemes
- Multiple access techniques for satellite communications
- Network Coding and bandwidth saving techniques
- MIMO, multi-user detection & diversity techniques
- Fading and interference mitigation techniques for Ka, Q/V, W band
- Advanced interference management paradigms
- Linear and non-linear channel distortion countermeasures
- Advanced signal processing for communications and GNSS
- Propagation measurements and channel models
- Antennas and user-terminal technologies
- Networking and radio resource management
- QoS/QoE management and users’ scheduling
- Opportunistic and cognitive communications
- Cross layer design of satellite networks, and ad-hoc satellite networking
- Optical free space analogue and digital communications
- On board processing techniques, advanced payload architectures
- Advanced high-rate digital modems for space communications
- Compressed sensing for satellite applications

**Systems and Applications**
- Next generation mobile, broadband and broadcast satellite systems
- LEO, MEO constellation system aspects
- M2M, SCADA, interactive television applications
- Satellite-based solutions for aeronautical, maritime, and/or railways Applications
- Satellite-aided navigation systems, positioning and timing
- Dual use and data relay satellite systems
- Satellite and the Future Internet (SDN, NFV, ICN, ...)
- Ultra high speed communication solutions for feeder link and IIS
- Fixed and mobile technologies in hybrid access networks
- Integration between satellite, MANET, VANET and wireless sensor networks
- Integration of satellite telecommunication, navigation, and Earth observation services/assets
- Systems and technologies for unmanned systems
- Satellite-based sensors networks
- Deep-space communication systems
- Design of future TT&C communication networks
- 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, ...)

FOR FURTHER INFORMATION
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