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WCSP 2019

Space Information Communications and Networks Symposium

October 23-25, 2019, Xi'an, China

http://www.ic-wcsp.org

Overview: The Annual International Conference on Wireless Communications and Signal Processing (IC-WCSP) aims to gather international researchers from academia and industry to meet and exchange ideas and recent research works across the broad field of ICT technologies. The event of WCSP 2019 will be held in Xi'an, Shaanxi, China, on October 23-25, 2019. The theme of WCSP 2019 is to embrace the future communications toward intelligence, including but not limited to wireless communications, future networking, signal processing, Beyond 5G, network and information security, optical communications, satellite communications, intelligent informatics, and big data and multimedia.

Scope: The Space Information Communications and Networks Symposium invites submissions of high-quality original research papers exploring the architecture and techniques in integrated terrestrial-satellite networks. Currently, there is still a large number of populations without coverage of mobile service, and many emerging scenarios, such as Unmanned Aerial Vehicle (UAV) control, pipeline monitoring, or global container tracking, require the aid of wireless networks. However, existing networks are severely hindering these services from achieving their true potentials. Satellite network is an ideal solution to address such a problem. While terrestrial networks can achieve high-speed data service at low cost, satellites may cover an area of thousands of kilometers in radius, providing coverage to otherwise inaccessible locations. Thus, investigations of innovative technologies in terrestrial-satellite networks is in great need to bring out its true potential.

Potential topics of interest include, but are not limited to:

- Coding, modulation and synchronization in SatelliteCom
- Cognitive radio, spectrum sensing and spectrum sharing between terrestrial and satellite systems
- Interference modeling, management and cancellation in SatelliteCom
- Massive MIMO, antenna array and beamforming design in SatelliteCom
- Wireless MAC protocols for integrated networks in SatelliteCom
- Distributed and centralized resource allocation schemes in SatelliteCom
- Multiple access strategies, with particular emphasis on heterogeneous networks
- Heterogeneous users scheduling and management in SatelliteCom
- Cross-layer design for integrated terrestrial and satellite networks
- Integrated terrestrial-satellite network architectures
- Integration of 5G and satellite systems to extend service coverage
- Software-defined networking (SDN) and mobile cloud applied to integrated networks
- Routing protocols in integrated terrestrial-satellite networks
- Extension of terrestrial maritime services with a satellite segment (VDES via satellite)

Submission and Publication: Please visit the conference website at http://www.ic-wcsp.org for submission instructions. All accepted and presented papers will be included in the WCSP 2019 Conference Proceedings and submitted for inclusion in **IEEE Xplore** Digital Library.

Important Dates:

Submission deadline:	**July. 25**, 2019
Acceptance notification:	**Aug. 25**, 2019
Camera-ready paper:	**Sept. 10**, 2019

Symposium Co-Chairs:

Chunxiao Jiang	Tsinghua University, China
Giovanni Giambene	University of Siena, Italy
Qinyu Zhang	Harbin Institute of Technology, China
Chenhao Qi	Southeast University, China