CALL FOR PAPERS
WCSP 2019
Optical Networks and Systems 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, 5G Beyond, network and information security, optical communications, satellite communications, intelligent informatics and big data and multimedia.

Scope: Global demand for bandwidth originates from the ever-growing number of fixed and mobile broadband users and the connection of everyday objects and machines. The rapidly increasing of Big Data and Cloud-based services calls for progressively vast volumes of data transported across networks. These trends pose completely new challenges on the end-to-end connectivity and heterogeneity for the network of connected devices. This is impacting physical-layer and networking technologies in optical communications. IEEE WCSP 2019 calls for original papers related to the latest research, development, and applications on optical communications for the next-generation communication and intelligent system.

The ONS symposium welcomes the submission on the latest developments in all research areas related to optical networks and systems, including but not limited to the following:

- Optical networks in network function virtualization
- Machine learning assisted optical networks
- Big data driven optical networking
- Software defined optical networks
- Multi-band optical spectrum utilization and optimization
- Routing and spectrum assignment for optical networks
- Elastic, flexible rate and flexi-grid optical networks
- Cross-layer design of optical networks
- Energy efficient optical networks
- Optical network survivability and availability
- Optical network testbeds and experiments
- Optical network for inter and intra data centre connectivity

- All organic based optical wireless communication
- Array-based and MIMO optical wireless communication
- Optical wireless communication using camera
- Nonlinear channel modeling and characterization
- Channel capacity and achievable rates
- Free space optics
- Visible light positioning
- Hybrid RF/OWC technology
- Modulation, coding and detection schemes
- Novel (photonic) devices and components OWC
- Underwater OWC communication
- Ultraviolet communications
- Visible light communications (indoor, outdoor and localization)

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:	**June 15**, 2019
Acceptance notification:	**Aug. 15**, 2019
Camera-ready paper:	**Sept. 5**, 2019

Symposium Co-Chairs:

Chen Gong	University of Science and Technology of China, China
Ming Jiang	Sun Yat-Sen University, China