

The 5th International Workshop on Optical Communication Systems Connectivity OCSC' 2019

Organizer: National Communications Studies and Research Institute (INSCC Bucharest)

The purpose of OCSC' 2019, the 5th International Workshop on Optical Communication Systems Connectivity OCSC' 2019, is to bring together researchers, engineers and practitioners interested on any of the optical communication system – FO or FSO.

Fiber optics – FO,- based communications are integrating complex structures designed to work the information signals for processing, carrying, identifying, and controlling all the way from the emitting sources to the receiving terminals. The guided optical communications is combining the electronic signals technologies with laser pulses travelling the fiber highways. Optical fiber provides high-rate transmission in communication networks, while supporting the needed bandwidth and requirements that are expected to be imposed on the front-haul network to support the 5G.

Free space optic connection – FSO, is a complementary fiber optic connectivity technology. Wireless optical technology has the ability to accelerate the completion of an optical access network and brings traffic in the local network securely and reliably. Wireless optical connection is a solution "anywhere, anytime" access networks to supplement existing in any topology, with immediately income contribution.

Topics

- Design, Control and Management of Optical Networks
- Optical Networks Performance Modelling
- QoS. Optical Networks for Future Networks
- Energy Efficiency in Optical Networks
- Integration of Optical and Wireless Networking
- Optical Access Networks
- New Optical Fiber Technologies
- Packet Optical Networking Technology
- WDM Optical Networks
- High Speed Optical LANs and Gigabit Ethernet
- Opto-Electronics for Terabit Networking
- Next Generation Optical Networking
- Optical Sensors
- The capacity of the fiber limited by the intermodal dispersion and chromatic dispersion
- Limitation of nonlinear effects on fiber behavior
- Fiber-based networking components

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