



## CALL FOR PAPERS

### Special Session

#### Optical Networks and Systems

#### Organizer

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Nowadays, the foreseeable growing-up of the applications of digital services, such as 5G applications, cloud-based storage and services, big data, and Internet of Things (IoT) and so on, bring great challenge to the transmission capacity of existing optical networks and systems, which are continuously driving the research interest of optical systems and networks. Developments in optical field modulation and optical signal processing are also redefining traditional paradigms and impacting the process of optical signal multiplexing/demultiplexing. As a result, optical networks and systems technologies are desired to be able to meet numerous new research and development encounters. The progress in any respect of the optical networks and systems, such as optical components capabilities, optical signal switching and control, optical field modulation, optical signal processing, optical transmission mechanism, optical networks security and etc., are expected for a very promising profit in near future. Hence this topic devotes to present the latest developments in all areas of optical networks and systems research, which include the following topics, but not limited to:

- Optical networking in 5G systems
- Optical networks and systems for big data and cloud applications
- Optical networks and systems for IoT and smart grids
- Protection and restoration, survivability and disaster recovery in optical networks
- Routing and wavelength assignment and spectrum management
- Optical modulation and signal processing
- Optical transmission systems and performance monitoring
- Optical wavelength-division, time-division, and code-division multiplexing (WDM, OTDM, OCDM)
- Optical spatial division multiplexing
- Elastic and flexible grid optical networks
- Free space optical (FSO) communications and networks
- Impact of physical-layer impairments and non-linearities on optical network design
- Multi-casting in optical networks
- Compressed Sensing for Optical Systems
- Multi-layer and Multi-domain optical network design and operations
- Optical add/drop multiplexers (OADMs)
- Optical network and system standards
- Optical network control
- Optical switching technologies, devices, and architectures
- Optical technologies, components, and sub-systems for telecom networks
- Software defined networking (SDN) for optical networks
- Traffic grooming and engineering in optical networks
- Ultraviolet communications and networks
- Underwater optical communications
- Optical networks and converged optical-wireless networks

### IMPORTANT DATES

Special sessions submission deadline: ~~February 17, 2020~~  
July 6, 2020 (Final)

Acceptance notification : August 3, 2020

Camera-ready deadline : August 31, 2020

More Info <http://ict-20.org>

### SUBMISSION GUIDELINES

Acceptance will be based on full paper. Prospective authors are invited to submit high-quality original technical papers **following the rules of the Main Track**. All presented papers will be published in **ICT 2020 Proceedings** and **submitted to IEEE Xplore**.

Submit your paper to: <https://edas.info/N26920>

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