Optical Communication and Networks Facilitating Emerging Applications and Services

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Deadline for manuscript submissions:
closed (31 July 2024)

Message from the Guest Editors

We cordially invite original contributions focused on the applications and services that can take advantage of optical networks. Topics of interest include but are not limited to:

- Application-aware optical network design and optimization;
- Quality of experience of emerging applications offered through optical networks;
- Emerging, network-based, applications provisioned through optical networks: advantages and challenges;
- Optical network slicing;
- Softwarization and virtualization of optical networks;
- Integration between optical and mobile networks;
- Optical interconnectivity for distributed computing;
- Elastic optical networks;
- Dynamic reconfiguration of optical networks for the purpose of emerging applications;
- Monitoring of optical networks, including monitoring of transmission parameters (modulation formats, optical signal-to-noise ratio (OSNR), symbol rate, etc.) monitoring;
- Use of AI/ML for improving performance in optical networks;
- Proof of concept showing usage of optical networks for the purpose of emerging applications.

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