



*photonics*



an Open Access Journal by MDPI

## Optical Network Design and Optimization

Guest Editors:

**Prof. Dr. Yang Qiu**

Key Laboratory of Electronic and Information Engineering, State Ethnic Affairs Commission, College of Electronic and Information, Southwest Minzu University, Chengdu, China

**Dr. Xun Guan**

Tsinghua-Berkeley Shenzhen Institute, Tsinghua Shenzhen International Graduate School, Tsinghua University, Shenzhen 518055, China

Deadline for manuscript submissions:

**closed (30 April 2023)**

### Message from the Guest Editors

Dear Colleagues,

Optical communications are well known to support global communication networks due to their inherent characteristics in provisioning high-speed transmissions resulting from the utilization of different degrees of freedom of the photon. With the application of high-rate transmission in different scenarios, both terrestrial and underwater scenarios, and some revolutionary optical networks, such as elastic optical networks, underwater optical wireless networks, and optical wireless networks, have attracted intensive research interest. This Special issue aims to explore the issues in optical network design and optimization. It will focus on the state-of-the-art advances from fundamental theories, devices, and subsystems to networking applications, as well as future perspectives of optical networks. Topics of interest include but are not limited to the following areas:

- Underwater optical wireless network design and optimization;
- Elastic optical network design and optimization;
- Underwater OWC sensor network design and optimization;
- Hybrid communications and network design and optimization;
- Optical materials, components, devices, and subsystems.



[mdpi.com/si/136671](https://mdpi.com/si/136671)

# Special Issue