Special Issue

Optical Network Design and Optimization

Message from the Guest Editors

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.

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

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About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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Prof. Dr. Nelson Tansu School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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