Special Issue

Optical Networking Technologies for High-Speed Data Transmission

Message from the Guest Editors

The emerging artificial intelligence-generated content (AIGC) has become popular worldwide, leading to explosive Internet traffic in various optical networks, from short-reach data-center interconnects to long-haul optical transmission. Optical transmission plays a more important role in underpinning the modern information society thanks to its wideband, low loss, and scalable features. This Special Issue will explore the latest advances in optical networking technologies for high-speed data transmission. Both original research articles and reviews are welcome. The topics of interest include, but are not limited to, the following:

- High-speed transmission in on-chip optical networks;
- High-speed transmission in on-board optical networks;
- High-speed transmission in data-center optical networks;
- High-speed transmission in passive optical networks;
- High-speed transmission in fiber-wireless networks;
- High-speed transmission in metro optical networks;
- High-speed transmission in long-haul networks;
- High-speed transmission in optical switching networks;
- High-speed transmission in free-space optical networks.

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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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