# Special Issue

# Optical Performance Monitoring

### Message from the Guest Editors

To achieve the reliable operation and efficient management of such optical networks, it would be essential to obtain incremental information such as transmission parameters (modulation formats, optical signal-to-noise ratio (OSNR), symbol rate, etc.), transmission impairments (chromatic dispersion (CD), nonlinearity impairments, polarization mode dispersion, polarization-dependent loss, etc.). This Special Issue invites manuscripts that introduce the recent advances in “Optical Performance Monitoring”. All theoretical, numerical, and experimental papers are accepted. Topics include, but are not limited to, the following:

- Transmission parameters (modulation formats, optical signal-to-noise ratio (OSNR), and symbol rate, etc.) monitoring;
- Transmission impairments (chromatic dispersion, nonlinearity impairments, polarization mode dispersion, and polarization dependent loss, etc.) monitoring;
- Linear and nonlinear noise estimation;
- Physical layer model for QoT estimation;
- Machine learning for QoT estimation.

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### Deadline for manuscript submissions

closed (10 September 2023)

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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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