

Optical Performance Monitoring

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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.

