

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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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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JCR - Q2 (Optics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 14.9 days after
submission; acceptance to publication is undertaken in 1.9
days (median values for papers published in this journal in
the second half of 2024).