

Special Issue

Optical Networking and Computing

Message from the Guest Editor

This Special Issue will explore various competing architectures and technologies in optical networking and computing, emphasizing spectrum management, performance modeling, and network design. Studies on novel optical/photonic computing and networking architectures are also welcome. Specific topics of interest include the following:

- Optical network design and optimization;
- Spectrum management and control protocols;
- Multi-core fiber, elastic and flexible-grid networks;
- Network science for optical networks;
- Filterless optical networks;
- Data center networks;
- Artificial Intelligence (AI) and Machine Learning (ML) for optical networks;
- Secure and Quantum optical networks;
- Wireless/Optical Network Integration;
- Photonic and reservoir computing;
- Software-defined networks;
- Short-range and short reach optical networks;
- Optical networks for 5G/6G.

Guest Editor

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Deadline for manuscript submissions

closed (15 November 2025)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).