



Advances in Optical Communication and Optical Computing

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

With the development of information technology, optics technology has emerged as a game-changer in various scientific, technological, and industrial domains, offering significant advantages over traditional electronic components and systems. Optical technologies offer high-speed data transmission, increased bandwidth, and energy efficiency, making them essential for addressing the growing demands of modern communication and computing systems. This Special Issue aims to highlight recent advancements and breakthroughs in optical communication and optical computing, exploring their transformative impact on various domains.

In this Special Issue, original research articles and reviews are welcome. Research areas may include, but are not limited to, the following:

- Advanced modulation and coding techniques for optical communication;
- Next-generation optical networking architectures;
- Optical materials and devices for optical communication systems;
- Optical interconnects and network-on-chip architectures for neuromorphic computing;
- Novel approaches in optical signal processing and optical computing algorithms.





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Message from the Editor-in-Chief

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