



Machine Learning and Photonics Cooperation: Principles, Algorithms, and Systems

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

This Special Issue will focus on the fundamental theory, frameworks, techniques, and applications of machine learning/deep learning combined with photonics, with the aim of sharing and discussing recent advances and future trends. The topics of interest include but are not limited to the following:

Typical systems and applications

- Biomedical imaging
- Object recognition/detection
- Machine learning applications
- Optical communication systems

Photonic neuromorphic computing and neural networks

- High-performance computing
- Optics for neuromorphic and reservoir computing
- Optical convolutional neural network
- Programmable photonics
- Optical unitary conversion

Optical components

- Semiconductor lasers and fiber-based lasers devices
- Programmable multi-purpose photonic integrated circuits
- Fibers





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Message from the Editor-in-Chief

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