Special Issue

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

Message from the Guest Editor

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
- Objection 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
- Optical amplifiers

Guest Editor

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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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