Special Issue

The Interaction between Photonics and Machine Learning

Message from the Guest Editors

This Special Issue aims to explore the intersection between photonics and machine learning, highlighting their synergistic relationship and the potential for groundbreaking advancements in various fields. Topics include, but are not limited to, the following:

- computational optics and machine learning
- deep learning for optical systems
- Al-empowered photonic sensor networks
- adaptive optics and machine learning algorithms
- optoelectronic neural networks for information processing
- machine learning-based optimization of photonic devices
- photonics-enabled machine vision systems
- Al-driven design of optical components
- quantum photonics and quantum machine learning
- reinforcement learning to control optical systems

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About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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