



photonics



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The Interaction between Photonics and Machine Learning

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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
- AI-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
- AI-driven design of optical components
- quantum photonics and quantum machine learning
- reinforcement learning to control optical systems



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Special Issue