

Special Issue

Intelligent Optoelectronic Detection and Tracking

Message from the Guest Editor

The field of intelligent optoelectronic detection and tracking is rapidly advancing, driven by the integration of cutting-edge photonic devices, machine learning algorithms, and real-time signal processing. This convergence enables new capabilities in target recognition, environmental sensing, autonomous navigation, and security surveillance. For this Special Issue, we invite the submission of original research and review articles that explore innovative approaches, system designs, and applications in this multidisciplinary domain. Topics of interest include, but are not limited to, the following: Intelligent optical sensors and detectors; AI-enhanced signal and image processing for tracking; Multi-sensor and multi-spectral detection systems; Adaptive and cognitive optoelectronic systems; Real-time embedded vision and photonic processing; Applications in autonomous vehicles, robotics, biometrics, and remote sensing. We welcome submissions that present novel methodologies, experimental validations, and insightful perspectives on the future of intelligent detection and tracking.

Guest Editor

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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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