Special Issue

Photonic Engines for Innovations

Message from the Guest Editor

Photonics has become a transformative technology at the intersection of ultrafast physics, information processing, and advanced communications. Its ability to manipulate electromagnetic waves with exceptional bandwidth, precision, and reconfigurability places it at the forefront of next-generation system design. Recent advances in integrated photonics, microwave photonic components, and hybrid electronic–photonic architectures have pushed performance well beyond conventional electronic limits, enabling ultrawide-band processing, low-loss distribution, high sensitivity, and real-time operation at unprecedented speeds. This Special Issue presents cutting-edge research that highlights the novel uses of photonics as a foundational engine for advances in beamforming, signal processing, sensing, computing, neural networks, ultra-high-speed machine learning, and intelligent systems. By showcasing both fundamental progress and practical implementations, we aim to illuminate the remarkable potential of photonics to drive the next wave of scientific and engineering innovation.

Guest Editor

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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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