Special Issue

Optical Communication: Technologies and Applications

Message from the Guest Editors

Optical communication underpins the world's data infrastructure, from long-haul submarine cables to short-reach datacenter interconnects and emerging free-space and quantum links. Rapid progress in integrated photonics, digital signal processing (DSP), advanced modulation, and novel spectral bands is reshaping what is possible in capacity, efficiency, security, and cost. We are pleased to invite you to contribute to this Special Issue, titled "Optical Communication: Technologies and Applications," which will highlight both fundamental advances and real-world deployments. This Special Issue aims to advance the science and engineering of optical communications across devices, subsystems, and wireless/wired networks. We welcome contributions that bridge theory and experiment, include benchmarking or reproducible methods, and clearly articulate implications for scalable systems. We look forward to receiving your valuable contributions.

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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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