Special Issue

Next-Gen Optical Wireless Communication

Message from the Guest Editor

With the rollout of 5G and the rapid expansion of satellite-based connectivity, there is increased demand for communication systems that offer higher capacity, lower latency, and improved spectral efficiency. We invite high-quality submissions presenting novel theoretical analyses, experimental results, and system-level innovations. Topics of interest include hybrid RF/optical systems for 5G and beyond, free-space optical (FSO) communication for satellite and aerial networks, photonic front-end design for OWC transceivers, optical backhaul for ultra-dense networks, and adaptive beamforming under atmospheric turbulence. This Special Issue provides a forum for disseminating cutting-edge research at the intersection of photonics and wireless communications. Its scope includes developments in optical transceiver design, modulation and coding for OWC, link performance analysis, and system integration with terrestrial and satellite infrastructures. Contributions that advance fundamental understanding, experimental validation, or practical deployment of next-generation OWC systems are welcome.

Guest Editor

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Deadline for manuscript submissions

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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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