Special Issue

Free-Space Optical Communication: Physics and Applications

Message from the Guest Editors

Free space optical (FSO) communication has recently received significant attention because of its advantages over its main competitors (i.e., fiber-based and RF/microwave communications), including unlicensed spectrum, much higher transmission rate, simplicity of setup, etc. FSO communication is also a highly attractive candidate for solving the 'last-mile' problem. The development of FSO communication will be beneficial to our daily lives, and will also assist us in intersatellite and deep space explorations. Research in FSO communication is a multidisciplinary field usually involving a wide range of areas, from physics, for instance the influence of environmental disturbance (fog, rain, snow turbulence, etc.), to the structures of optical beams (vortex/nondiffracting beams, manipulation of beam propagation, etc.) and application, such as FSO devices (receiver, transmitter, etc.) and communication networks (channel models, modulation and signal processing, etc.). We believe that advances in these research fields will push this technology forward.
Kind regards,

Guest Editors

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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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