Special Issue

Advances and Application of Structured Light

Message from the Guest Editors

Structured light is derived from the ability to tailor light and usually refers to the spatial control of amplitude, phase, and polarization. Microscopes, holography, optical communications, and laser machining are just several of the domains that have evolved over the past decade owing to the advances in wavefront-shaping platforms. Recently, spatiotemporally coupled wave packets have been reported and offer an unprecedented level of light manipulation in space and time. Nevertheless, with the deepening and extension of research, many new problems and challenges have emerged. The aim of this Topic is to provide the latest theoretical and experimental methods for the creation, detection, and control of the structured light. This publication will consist of topical research including (but not limited to) the following areas:

- High-dimensional structured light
- Spatiotemporal optical vortex
- Light shaping
- Vortex laser
- OAM entanglement
- Machine learning
- Nonlinear optics
- Photonic spin–orbit interaction
- Topology of structured light
- Optical imaging
- Optical manipulation

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Deadline for manuscript submissions

closed (10 November 2023)

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mdpi.com/si/164094

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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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