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Advances in Structured Light

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Message from the Guest Editor

Dear Colleagues,

Structured light with distinct spatial structures or spatiotemporal structures has become a research hotspot in the fields of optics and optoelectronics due to its unique physical properties and novel physical effects, as well as various promising potential applications. Typical examples of spatial structured light beams include vortex beams, non-diffracting beams, self-accelerating beams, vector light beams, partially coherent beams, tightly focused beams, and spatiotemporal light beams. Compared with conventional fundamental Gaussian laser beams, structured light beams exhibit a variety of novel physical effects and phenomena, such as phase singularity, diffraction-free propagation, transverse acceleration, high local intensity, angular momentum transfer, vector structure, autofocusing, and so on. These new properties have led to many potential applications in various fields of science and technology.

This Special Issue aims to report recent advances in structured light, including the characterization, generation, manipulation, propagation, and application of structured light beams.

Original research articles and reviews are welcome in this Special Issue.



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Special Issue