Special Issue

Imaging and Sensing with Correlated Photons

Message from the Guest Editors

In recent years, many relevant developments, theoretical, experimental, and technological, have led to the proposal and implementation of novel imaging and sensing protocols capable of exploiting photon correlations, either classical or quantum, to overcome the intrinsic limitations of conventional devices. Enhanced resolution, sensitivity, accuracy, and 3D imaging capability are combined with robustness to scattering and turbulence, as well as the capability of performing imaging and sensing at a given wavelength while measuring photons at a different one. These developments are expected to have a revolutionary impact in many fields, from remote sensing, target detection, and ranging applications, to biomedical imaging, industrial inspection, gas sensing, and material sciences.

- quantum imaging
- quantum sensing
- photon correlations
- entanglement

Guest Editors

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Deadline for manuscript submissions

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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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