Special Issue

Photonic State Tomography: Methods and Applications

Message from the Guest Editor

State tomography is becoming a crucial component of the quantum engineering toolbox since it facilitates validation and certification of quantum technology. In particular, photons are widely exploited in quantum protocols because information can be encoded by occupying different degrees of freedom, especially: polarization, spectral, spatial, and temporal modes. As a result, there are numerous techniques that can be used to determine the quantum state of light. For this Special Issue, you are invited to submit manuscripts that provide novel results on photonic state tomography, both theoretical and experimental. We expect papers that present theoretical frameworks formulated on the grounds of mathematical physics. Also, we encourage the submission of feasibility studies that investigate the efficiency of selected models by numerical methods. Finally, we invite experimental papers that fall into a wider scope of quantum optics, but photonic tomography is implemented as a part of the research. In every case, it will be welcome if the contribution involves state tomography of entangled photons.

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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