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Imaging and Sensing with Correlated Photons

Guest Editors:

Prof. Dr. Milena D'Angelo

Dr. Francesco V. Pepe

Dr. Francesco Scattarella

Deadline for manuscript submissions:
closed (10 June 2023)

Message from the Guest Editors

Dear Colleagues,

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

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Editor-in-Chief

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Message from the Editor-in-Chief

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