

Special Issue

Precision Optical Metrology and Smart Sensing

Message from the Guest Editors

Computer-vision-based optical metrology methods, including triangulation, fringe projection and deflectometry, have attracted intensive interest and have widespread applications. With increasing requirements for measurement accuracy and sensing efficiency, evolutions and revolutions continuously occur in terms of measuring setup, fringe coding/decoding, light modulation, error compensation, etc. The impacts of environmental factors, machine tools, measuring procedures or even operators need to be investigated and addressed carefully in combination with recently emerging technologies such as artificial intelligence, robots, digital twin, photonics and so on. In order to establish a highly transdisciplinary discussion forum among scientists and engineers on precision optical metrology and intelligent sensing, this Topical Collection is proposed to share novel ideas, recent developments and literature reviews. The topics include, but are not limited to:

- 3D optical sensing;
- Computer vision;
- Quantitative phase imaging;
- Fringe projection;
- Deflectometry;
- Computational imaging.

Guest Editors

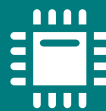
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Deadline for manuscript submissions

closed (30 September 2024)



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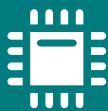
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