Special Issue

Advancements in Optical Metrology and Imaging

Message from the Guest Editors

Optical metrology and imaging are at the forefront of technological innovation, enabling precise measurements and high-resolution imaging across various fields. This Special Issue is dedicated to exploring research that advances the state of the art in these fields and will cater to contributions that address challenges in measurement accuracy, imaging resolution, and the integration of optical technologies with other disciplines. This Special Issue seeks to present research that will not only enhance our understanding of optical metrology but also drive innovation in applications critical to industries like manufacturing, healthcare, and train traffic. We are pleased to invite you to submit your recent work that spans from theoretical developments to practical applications related to optical metrology and imaging. Research areas may include (but are not limited to) the following: optical measurement, 3D/2D imaging, computational imaging, image processing, optical and visual inspection for surface defects, and deep learning and machine learning applications related to optical imaging techniques. We look forward to receiving your contributions.

Guest Editors

Dr. Yingying Wan

Dr. Ji Tan

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Deadline for manuscript submissions

31 August 2025

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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Optics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2024).

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