



Online/Onsite Optical Metrology Techniques: Challenges, Trends and Solutions

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Message from the Guest Editors

In recent years, online and onsite optical metrology techniques have received extensive attention for many dimensional control research and industrial applications. Online and onsite optical metrology techniques have remarkable advantages in regard to accuracy, efficiency and the amount of collected data, thus changing the way the inspection applications are performed and providing new possibilities for online/onsite product quality control.

The technical scope of this Special Issue includes, but is not limited to:

- 2D and 3D optical metrology techniques;
- Accuracy and efficiency improvements for optical metrology;
- Image and point cloud processing algorithms;
- High reflective surface measurement;
- Novel vision sensors and instruments;
- Robot integrated optical metrology systems;
- AI-assisted optical metrology;
- Online/onsite optical metrology solutions;
- Vision Detection or 3D Reconstruction using UAV;
- High-precision vision measurement in vibration environment;
- Digital image correlation technology under extreme conditions.





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Message from the Editor-in-Chief

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There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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