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Sensors for Optical Metrology

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submissions:

closed (20 April 2021)

Message from the Guest Editor

The aim of this Special Issue is to bring together researchers active in the research, development, calibration, and characterization of sensors that are applied in optical metrology in order to achieve the highest accuracy and, thus, the lowest uncertainty.

In the continuous development towards higher speed, lower cost, more data, smaller acquisition times, better traceability, less user intervention, and more autonomous systems, the development, characterization, and calibration of sensors for optical metrology is even more immanent than before.

Works on classical technologies, such as Fizeau interferometers and displacement laser interferometers, are welcome, as well as those based on more recent innovative techniques, such as frequency combs and optical clocks, instantaneous surface profiling, areal chromatic confocal measurements, multi-wavelength digital holography, wavefront sensors, laser distance sensors, etc.

The Special Issue topics include, but are not limited to, the following:

Sensor; Frequency comb; Digital holography; Calibration; Triangulation; Free form optics; Traceability; Chromatic confocal sensor



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Special Issue



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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