

Special Issue

Camera Calibration and 3D Reconstruction

Message from the Guest Editors

The importance of accurate image-based assessment of 3D objects and scenes is rapidly growing in the fields of computer vision (cf. AR/VR, autonomous driving, aerial surveillance, etc.) and optical metrology (photogrammetry, fringe projection, deflectometry, etc.). As the performance of digital sensors and optics approaches physical limits, uncertainties associated with models of imaging geometry, calibration workflows and data types, pattern recognition algorithms etc. directly affect numerous applications. We are pleased to invite you to contribute manuscripts to this Special Issue. It addresses the metrological aspects of modeling, characterizing, and using digital cameras in the context of 3D measurements, as well as novel analytic (e.g., visualization) tools and techniques facilitating robust and reliable camera-based measurements. Both original research articles and reviews are welcome.

Guest Editors

Dr. Alexey Pak
Prof. Dr. Steffen Reichel
Dr. Jan Burke

Deadline for manuscript submissions

closed (31 July 2022)



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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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