Camera Calibration and 3D Reconstruction

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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.

Deadline for manuscript submissions: 31 December 2021
Message from the Editorial Board

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