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## 3D Reconstruction with RGB-D Cameras and Multi-sensors

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Deadline for manuscript  
submissions:

**closed (10 April 2025)**

### Message from the Guest Editors

Multi-sensor systems are widely used in 3D reconstruction tasks, such as 3D shape reconstruction, 4D body scanning, and human activity monitoring, to name a few. Compared to single-sensor systems, multi-sensor systems can simultaneously capture data from different viewports, which enables real-time complete shape capture. However, multi-sensor systems are usually expensive and require professional knowledge for operation. With the advancement of commodity RGB-D cameras, there have been countless attempts to build low-cost 3D reconstruction systems. During these attempts, additional challenges were encountered (e.g., calibration of multiple RGB-D sensors, human joint detection from point clouds, low-resolution of the scanned images, and compression of large-scale point clouds), which have encouraged researchers to explore more advanced algorithms.

In this context, the objective of this Special Issue is to connect researchers in the field of camera calibration of multiple sensors, RGB-D sensors, machine learning, 3D scanning, 4D capture, and other related fields.



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**Special** Issue



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## Message from the Editor-in-Chief

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