Special Issue

3D Reconstruction with RGB-D Sensors

Message from the Guest Editor

RGB-D sensors provide dense real-time measurements of 3D surfaces as a 4-channel signal. RGB color channels characterize surface appearance and a fourth depth channel provides local surface geometric measurements. Since its introduction a decade ago, RGB-D sensing hardware has been and continues to be an integral component of leading mapping and 3D reconstruction technologies. This Special Issue seeks submissions that demonstrate the current state-of-the-art in RGB-D-based 3D reconstruction and mapping algorithms. Examples of topics of interest are submissions that detail theory and applications for 3D reconstruction. This includes robotic mapping applications (visual odometry, RGBD-SLAM), 3D scanning applications, reverse engineering applications, single and multi-camera RGB-D capture, and calibration methods and 3D segmentation approaches.

Guest Editor

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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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