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3D Reconstruction and Visualization of Dynamic Object/Scenes Using Data Fusion

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Message from the Guest Editors

For an in-depth analysis and understanding of the contextual environment, knowledge of the 3D structure of a scene provides valuable information. 3D virtual reconstruction involves the geometric structure of a scene captured by a collection of images by facilitating the position of the camera and the internal parameters. The technology of data fusion-based 3D reconstructing using 3D sensors such as RGB-D Camera, Lidar, and Radar have been used in various applications such as autonomous things, robotics, remote sensing, or VR/AR. In particular, deep learning methods for multi-modal 3D data fusion using only images or heterogamous sensor data such as images and point clouds are actively used for 3D reconstruction in research and industry. Complexity, occlusions, variety of structures, and inaccessible locations are serious issues that will affect the capture of all the geometric details of 3D structures. This Special Issue focuses on finding robust methods to use in uncontrolled environments using 3D scene modeling, autonomous exploration of unknown scenes, autonomous obstacle avoidance system, etc. We welcome novel research, reviews, and articles covering all related topics.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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