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Structure from Motion (SfM) Photogrammetry for Geomatics and Geoscience Applications

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Message from the Guest Editors

Dear Colleagues,

Nowadays, a large number of applications require reliable geometric information about objects and the environment. The most commonly-used techniques for obtaining such 3D information without contact with the objects are usually LiDAR (Light Detection And Ranging) and photogrammetry. The aim of this Special Issue is that of presenting new research advancements on methodological and algorithmic aspects on photogrammetry and Structure from Motion, on the integration of photogrammetric reconstruction with other systems, on the processing and analysis of image-based tridimensional data, and on the use of photogrammetry in applications related in particular to geomatics, geosciences, and related fields, such as surveying, mobile mapping, hydrology, geomorphology, civil engineering, architecture, cultural heritage, and precision farming.

Keywords: Photogrammetry, Structure from Motion, Geoscience, Geomatics, UAV, 3D data processing, Mobile mapping, DTM, Remote Sensing, GIS



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