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3D Reconstruction and Mobile Mapping in Urban Environments Using Remote Sensing

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Deadline for manuscript submissions:
closed (19 July 2024)

Message from the Guest Editors

This Special Issue focuses on the techniques for 3D reconstruction and mobile mapping in urban environments, especially for new instruments for data acquisitions in complex urban environments, scale-illumination invariant algorithms for robust feature matching, efficient image retrieval for image or LiDAR-based localization, SfM-based solutions for image orientation, SLAM-based solutions for image or LiDAR processing, and deep-learning-based network for feature detection and matching, etc.

In this topic, the involved data sources are limited to the remote sensing field, including images from high altitude satellites, aerial planes, UAVs and MMS vehicles, and point clouds from airborne and ground scanners.

- new instruments for data acquisitions in complex urban environments
- scale-illumination invariant algorithms for robust feature matching
- deep learning for feature detection and matching
- efficient image retrieval for image or LiDAR-based localization
- SfM-based solutions for image orientation
- SLAM-based solutions for image or LiDAR processing
- Neural Radiance Field for 3D reconstruction
- high-resolution satellite images for urban building 3D modeling

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Message from the Editorial Board

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