



Latest Developments in 3D Mapping with Unmanned Aerial Vehicles

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Deadline for manuscript
submissions:

closed (31 October 2020)

Message from the Guest Editors

Unmanned aerial vehicles (UAVs) have become indispensable for remote sensing applications. UAVs have created fascinating possibilities to gather data in ways that have not been possible before. In many scenarios, UAVs have become a viable alternative to traditional airborne sensors and, even more, they have expanded the use of aerial data in application scenarios where this has not been done before. One specific field of application that has benefited from these developments is 3D reconstruction and mapping.

The Special Issue is proposed with the aim of contributing to an increase in the level of knowledge in the context of UAV for 3D mapping. In particular, we solicit papers presenting investigations with UAV platforms and remote sensing data acquired with these platforms:

- Large-scale mapping and 3D reconstruction;
- Autonomous navigation;
- 3D documentation of complex scenarios;
- Onboard SLAM;
- Online and real-time processing;
- Data fusion (integration of UAV data with other sources);
- Machine/deep learning for UAV perception (real-time object detection, semantic classification for navigation, etc.);
- Applications in non-topographic fields (agriculture, forestry, etc.).





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