

Special Issue

Latest Developments in 3D Mapping with Unmanned Aerial Vehicles

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.).

Guest Editors

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Message from the Editorial Board

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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