



an Open Access Journal by MDPI

# **Latest Developments in 3D Mapping with Unmanned Aerial Vehicles**

Guest Editors:

### Dr. Friedrich Fraundorfer

Graz University of Technology, Institute of Computer Graphics & Vision Inffeldgasse 16/II, 8010 Graz, Austria

### Prof. Dr. Fabio Remondino

3D Optical Metrology (3DOM) Unit, Bruno Kessler Foundation (FBK), 38123 Trento, Italy

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.).



Specialsue







an Open Access Journal by MDPI

### **Editor-in-Chief**

### Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

## **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.

### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

**Journal Rank:** JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)

### **Contact Us**