Special Issue

Reproducing Vegetation Structure from UAV-Based Photogrammetry

Message from the Guest Editor

Vegetation monitoring and modelling is a commonly proposed application of UAV photogrammetry. However, many trees, shrubs and grasses poorly adhere to the photogrammetric assumptions required for reconstruction. Numerous publications compare photogrammetric outputs with terrestrial, UAV or airborne LIDAR or field observations without assessing UAV photogrammetric products' variability. The automated workflows that allow UAV photogrammetry and the complex spatial and temporal environments during imagery capture are less studied. This Special Issue seeks publications that directly address the reproducibility of the photogrammetric reconstruction of vegetation. We are seeking manuscripts that include independent imagery and photogrammetric pipelines, and the impacts of software settings. Vegetation structure differences (open vs. closed canopies, leaf orientation and size) affect texture and, therefore, affect subsequent reconstruction. Testing the limits of reproducibility for vegetation models is an essential step for determining whether UAV photogrammetry provides the sensitivity and reproducibility required for monitoring and management.

Guest Editor

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Deadline for manuscript submissions

closed (24 December 2021)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/78205

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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.

Editor-in-Chief

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