Reproducing Vegetation Structure from UAV-Based Photogrammetry

Guest Editor:

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Deadline for manuscript submissions:
closed (24 December 2021)

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.

Special Issue

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Message from the Editor-in-Chief

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