Forestry Applications of Unmanned Aerial Vehicles (UAVs) 2019

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Message from the Guest Editor

Unmanned aerial vehicles (UAVs) are new platforms that have been increasingly used in the last few years for forestry applications that benefit from the added value of flexibility, low cost, reliability, autonomy, and capability of timely provision of high-resolution data. The main adopted image-based technologies are RGB, multispectral and thermal infrared. LiDAR sensors are becoming commonly-used to improve the estimation of relevant plant traits. In comparison with other permanent ecosystems, forests are particularly affected by climatic changes due to the longevity of the trees and the primary objective is the conservation and protection of forests. The main forestry application aim to inventory resources, map diseases, species classification, fire monitoring and spatial gaps estimation. This Special Issue focuses on new technologies (UAV and sensors) and innovative data elaboration methodologies (object recognition and machine vision) for applications in forestry.

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Special Issue

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Message from the Editor-in-Chief

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