Advances in Vegetation Structure Modelling to Support the Sustainable Development Goals Acquisition through Forest Management

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Message from the Guest Editors

Dear Colleagues,

Recently, the development of LiDAR technology constitutes an important advance in forest management made through remote sensing techniques. Complementary technologies have arisen to improve vegetation structure modeling due to the availability of LiDAR data from satellite missions such as the Global Ecosystem Dynamics Investigation LiDAR (GEDI) or the Ice, Cloud and Land Elevation Satellite-2 (or ICESat-2). These technological developments have been accompanied by advances in modeling methods, from empirical (parametric and non-parametric statistical approaches) to physical methods, such as Radiative Transfer Models (RTM), especially 3D RTM, which is capable of simulating the LiDAR response.

This Special Issue is aimed at studies covering the application of advanced remote sensing techniques to vegetation structure modeling, with the aim of supporting sustainable forest management. Topics may cover the wide range of variables related to resources and hazard modeling and mapping, such as: wildfire; Dasometry/inventory; Climate change; Ecology, etc.
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