Special Issue

Remote Sensing Application in Forest Biomass and Carbon Cycle

Message from the Guest Editors

Over the past few years, significant progress has been made in the remote sensing monitoring of forest above-ground biomass and the carbon cycle. Multi-resource remote sensing including airborne/spaceborne multi- and hyperspectral, LiDAR (e.g., the new spaceborne GEDI and ICESat-2), interferometric SAR, and polarimetric interferometric SAR (PolInSAR) can generate regional to global maps of forest above-ground biomass. Meanwhile, novel approaches have improved the accuracy of forest biomass estimation, such as a combination of lidar data and mechanistic models, fusion of multispectral and lidar, and the application of machine learning and deep learning. This Special Issue focuses on the application of remote sensing in forest above-ground biomass and carbon cycles, all original research findings and perspectives relative to forest biomass estimation are welcomed.

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