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Remote Sensing Application in Forest Biomass and Carbon Cycle

Guest Editors:

Dr. Qisheng He

College of Hydrology and Water Resources, Hohai University, Nanjing 210098, China

Dr. Wenmei Li

School of Geographic and Biologic Information, Nanjing University of Posts and Telecommunications, Nanjing 210023, China

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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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Special Issue



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Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

Message from the Editor-in-Chief

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Forests Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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