Forest Structure Monitoring Based on Remote Sensing

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Message from the Guest Editors

Forests are complex and highly dynamic ecosystems. As forests on all levels are endangered by impacts of global warming and increasing human activities the dynamics of forest structure changes and their impact to the forest ecosystems require more detailed and more frequent monitoring. Monitoring of above ground biomass (AGB) of forests for the reduction of deforestation and degradation to mitigate global warming has become a major driver to improve measurements with respect to accuracy, cost and frequency.

This special issue shall represent the state of the art of forest structure assessment and monitoring by remote sensing to improve forest planning, management and protection on all levels.

    integrated inventory schemes to combine remote sensing with in-situ measurements,

    large data volume processing for monitoring forest structure changes in time series,

    use of artificial intelligence (AI) methods for improved data analysis in 2- and 3-D.

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