remote sensing

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Remote Sensing Applications for Forest Ecosystem Monitoring and Spatial Modeling

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Message from the Guest Editors

Dear Colleagues,

Forests, covering almost a third of terrestrial land cover surface, represent one of the most sophisticated ecosystems. They provide countless ecosystem services, potentially mitigating the ongoing climate change. However, those services suffer from the increasing anthropogenic pressure and forest disturbances. To properly evaluate the effects, scientists worldwide work to improve their abilities to monitor forest ecosystems and their change. Outside the forests, networks of small landscape elements (grove, hedgerow, tree avenue, agroforestry, urban greenery etc.) are not only of high importance for biodiversity conservation and restoration but also contribute to the quality of our cultural landscapes.

The issue aims at studies covering different uses of different sensors and platforms in forest and landscape sciences. Articles may address, but are not limited, to the following topics:

- Tree and vegetation inventory
- Vegetation structural characteristics
- Land cover and landscape change
- Biotic and abiotic disturbances
- Phenological vegetation traits and trends
- (Micro)climate variables derivation
- Surface and terrain analysis
- Long-term monitoring

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Special Issue