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Modeling and Remote Sensing of Forests Ecosystem

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Message from the Guest Editors

Forests cover around one-third of the global land surface, store about half of the terrestrial carbon and are the dominating contributors of terrestrial net primary production. Over the last several decades, satellite records have offered the potential to monitor forest changes by combining diverse remote sensing sources including optical, synthetic aperture radar (SAR), light detection and ranging (LiDAR), and microwave sensors. Remote sensing data from different sources and with various land surface process models could provide better spatial coverage with high resolution, and are available for long-term time series, which can enable the effective global mapping and monitoring of forest trends. This Special Issue covers potential topics including but not limited to:

- Response of forest dynamics to anthropogenic activities and climate change;
- Time-series change detection and trend analysis of forest ecosystems;
- The impacts of climate extremes (e.g., drought, wetness) on the forest ecosystem;
- Monitoring of forest biomass and carbon dynamics;
- Mapping of forest structure parameters.



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Special Issue



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