Special Issue

Forest Biomass/Carbon Monitoring towards Carbon Neutrality

Message from the Guest Editors

This Special Issue will provide a platform for cutting-edge research on accurately assessing and monitoring forest biomass/carbon stock towards carbon neutrality using multi-source remote sensing data.

- high-resolution and large-scale mapping, monitoring, and modeling of the dynamics of forest biomass/carbon
- deep learning or innovative artificial intelligence algorithms for forest biomass/carbon stock estimation
- multiscale estimation and its spatial uncertainty of forest biomass/carbon stock
- the development of individual tree species classification or forest classification models using artificial intelligence approaches
- estimation of tree-level structural parameters and biophysical properties that are significant for forest biomass/carbon stock
- monitoring and modeling carbon fluxes in forest ecosystems
- the impact of climate change on the carbon source and carbon sink distribution of forests
- responses of forests to extreme weather events (e.g., heavy precipitation, drought, sand and dust storms) or disturbances (e.g., wildfire, insects)
- impact of forest mortality on carbon flux
- forest growth modeling using remote sensing data

Guest Editors

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Deadline for manuscript submissions

closed (1 February 2025)

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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