

Special Issue

Remote Sensing for Vegetation Dynamic Monitoring, Carbon and Ecological Assessment

Message from the Guest Editors

Terrestrial vegetation is a global biosphere core, sustaining ecosystem services, biodiversity and the carbon cycle. Amid climate change and human pressures, monitoring vegetation dynamics and assessing carbon stocks/ecosystem functions are vital for science, policy and management. Remote sensing, computation and ecological modelling enable multi-scale observation of these processes.

This Special Issue features cutting-edge research integrating multi-source Earth observation data (satellite, LiDAR, UAV, hyperspectral), welcoming vegetation-carbon cycle, ecosystem assessment and interdisciplinary modelling studies. Articles may address, but are not limited to, the following topics:

- vegetation detection;
- afforestation and ecological functions;
- revegetation and carbon sinks;
- carbon cycle evaluation;
- vegetation physiological processes inversion;
- vegetation and environment interaction;
- ecological restoration assessment;
- multimodal data processing and fusion;
- biodiversity and bioresources;
- climate adaptation.

We invite interdisciplinary contributions from remote sensing, ecology, geography, climatology, data science to advance global change research and ecosystem stewardship.

Guest Editors

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Deadline for manuscript submissions



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About the Journal

Message from the Editorial Board

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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