Special Issue

Satellite Remote Sensing for Monitoring Forest Carbon and Supporting Nature-Based Carbon Crediting Mechanisms

Message from the Guest Editors

This Special Issue aims to highlight the latest advancements in satellite-based monitoring and their applications in supporting nature-based solutions and carbon credit markets. We welcome submissions of original research, reviews, and case studies. Potential topics include the following:

- Advanced remote sensing techniques for mapping forest biomass and carbon stocks;
- Applications of satellite data in verifying and enhancing carbon credit mechanisms;
- Integration of ground-based and satellite observations for forest carbon monitoring;
- Remote sensing approaches to detect deforestation, degradation, and land use changes;
- Case studies on the use of remote sensing for implementing nature-based solutions;
- Innovations in modeling forest carbon fluxes using remote sensing technologies;
- Uncertainty assessment in satellite-based carbon monitoring.

Guest Editors

Dr. You-Ren Wang

Department of Marine Environment and Engineering, National Sun Yatsen University, Kaohsiung, Taiwan

Dr. Zutao Yang College of Forestry, Wildlife and Environment, Auburn University, Auburn, AL, USA

Deadline for manuscript submissions

31 July 2025



an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 8.6



mdpi.com/si/224879

Remote Sensing Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 remotesensing@mdpi.com

mdpi.com/journal/ remotesensing





an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 8.6



MDPI

About the Journal

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 peerreview 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.

Editor-in-Chief

Dr. Prasad S. Thenkabail

Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)