

Special Issue

Estimating Bioenergy and Carbon Stocks within Forests Using Remote Sensing Data

Message from the Guest Editors

Remote sensing has been one of the technological tools with the greatest growth in forestry research in the last decades, being used for mapping, cartography, and incorporated in forest inventories by the indirect measurement of biophysical variables and modelling (e.g., Dbh, height, canopy cover, density, LAI, vegetation indices). The use of optical, radar and lidar remote sensing data, acquired by different platforms (terrestrial, space-borne, airborne, unmanned aerial vehicles), combined with different fusion techniques, as well as geostatistical and modelling methods, makes it possible to obtain increasingly rigorous estimates of biomass and carbon stocks, with high spatial and temporal resolution.

This Special Issue aims to gather contributions exploring the most recent remote sensing approaches integrating data collected by different sensors/platforms, ground observations, laboratory analysis, and combining the latest processing techniques to quantify woody biomass for energy purposes, carbon stocks, and to evaluate the ecological aspects of biomass exploitation in forests and woodlands.

Guest Editors

Dr. Helder Viana

1. Department of Ecology and Sustainable Agriculture, Agricultural High School, Polytechnic Institute of Viseu, 3500-606 Viseu, Portugal
2. Centre for the Research and Technology of Agro-Environmental and Biological Sciences, CITAB, University of Trás-os-Montes and Alto Douro, UTAD, Quinta de Prados, 5000-801 Vila Real, Portugal

Dr. Krzysztof Stereńczak

Department of Geomatics, Forest Research Institute, Braci Leśnej 3 Street, Sękocin Stary, 05-090 Raszyn, Poland

Deadline for manuscript submissions

closed (25 December 2022)



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/78057

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

[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)





Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)



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.

Editors-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

Prof. Dr. Dongdong Wang

Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

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)