Special Issue

Advances in Remote Sensing and GIS Utilization in Monitoring of Forest Ecosystems

Message from the Guest Editors

Global forests lost 28.3 million hectares in 2023 and continue to be threatened by substantial natural and human disturbances. In the temporal dimension (recent decades or even recent centuries), we could witness the spatial-temporal forest change that includes carbon storage change, forest landscape change, and forest diversity change and explore its possible drivers. In the spatial dimension, we expect to detect extreme events (deforestation, forest fire, forest insects, forest drought, and other forest disturbances) and collect new forest ecological data (tree canopy height, forest aboveground biomass, and forest soil biochemistry) for management and planning. Remote sensing (RS) and geographic information systems (GISs) are cost-effective tools to monitor forest change in the long term and detect extreme events on a large spatial scale, which could be very helpful for forest management and planning. Novel applications with remote sensing and GIS could be entire new methods such as advanced techniques (deep learning or machine learning) or high-quality sensors. They could also be updated versions of classical techniques/sensor applications.

Guest Editors

Dr. Hang Li

Prof. Dr. Aleksandar Dj Valjarević

Dr. Menglin Qin

Prof. Dr. Giorgos Mallinis

Deadline for manuscript submissions

31 May 2026



Forests

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.6



mdpi.com/si/231222

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

mdpi.com/journal/ forests





Forests

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 4.6



About the Journal

Message from the Editor-in-Chief

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have Forests be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

Journal Rank:

JCR - Q2 (Forestry) / CiteScore - Q1 (Forestry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.1 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

