Special Issue

Applications of Optical and Active Remote Sensing in Forestry

Message from the Guest Editors

Forests are critical ecosystems for human life and carbon sinks. Accurate estimations of forest biophysical parameters (biomass, timber volume, crown parameters, etc.) are the foundation of the timber industry and forest management. Remote sensing data, with variable spatial and temporal scales and the advantage of non-destructive monitoring, are widely applied to forest monitoring. However, the variety of vegetation dynamics and complex forest structures brings challenges to forest monitoring in different scales via remote sensing. This Special Issue invites contributions that report new research and findings about the monitoring of forest biophysical parameters using remote sensing approaches, either through optical satellite images, satellite LiDAR point clouds, UAV images (RGB, multispectral or hyperspectral data), or UAV LiDAR point clouds. Original research and reviews in all types of forest ecosystems will be welcome, including, but not limited to, rain forests, mangrove forests, subtropical evergreen forests, boreal forests, forest–grassland transition ecotones, and various forest plantations.

Guest Editors

Dr. Dandan Xu

College of Ecology and Environment, Nanjing Forestry University, Nanjing 210037, China

Prof. Dr. Xulin Guo

Department of Geography and Planning, University of Saskatchewan, Saskatoon, SK S7N 5C8, Canada

Deadline for manuscript submissions

10 January 2026

Forests

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/207130

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

mdpi.com/journal/forests

MDPI

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).