



forests

an Open Access Journal by MDPI



Forest Inventory Monitoring Based on Remote Sensing

Guest Editors:

Dr. Xukai Zhang

Department of Agriculture and
Environmental Sciences, Lincoln
University-Missouri, Jefferson
City, MO 65101, USA

Dr. Bradley D. Graham

Missouri Department of
Conservation, West Plains, MO
65775, USA

Dr. Xuelian Meng

Department of Geography &
Anthropology, Louisiana State
University, Baton Rouge, LA
70803, USA

Deadline for manuscript
submissions:

31 May 2024

Message from the Guest Editors

Integrating remote sensing technology with forest inventory monitoring represents a cutting-edge and effective approach to understanding and managing forest ecosystems. With leveraging tools like satellites, drones, and LiDAR (Light Detection and Ranging) systems, remote sensing enables the acquisition of invaluable data on diverse forest attributes, including tree species, density, height, and health. Remote sensing not only streamlines the traditionally labor-intensive forest inventory process but also provides invaluable real-time insights into dynamic changes in forest cover, biodiversity, and carbon sequestration levels. It further empowers us to monitor and respond to disturbances such as wildfires, insect infestations, and deforestation promptly.

This Special Issue aims to encompass a wide range of remote sensing applications in forest inventory monitoring, showcase how this technology can substantially enhance our understanding and management of forest ecosystems, and foster more effective conservation efforts and sustainable practices.



mdpi.com/si/187294

Special Issue



forests



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng

Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa

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

Message from the Editorial Board

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.

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, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

Journal Rank: JCR - Q1 (*Forestry*) / CiteScore - Q1 (*Forestry*)

Contact Us

Forests Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/forests
forests@mdpi.com
[X@Forests_MDPI](https://twitter.com/Forests_MDPI)