Special Issue

Smart Forest Inventory, Management and Planning: Intelligent Technologies and Their Applications

Message from the Guest Editors

For this Special Issue, we seek papers on the following:

- Intelligent forest inventory and monitoring methods integrating multi-source remote sensing, LiDAR, and ground observation;
- High-precision estimation of forest biomass and carbon storage and regional/global-scale carbon sink assessment;
- Automated identification of and intelligent early warning systems for diseases, pests, and natural disturbances based on deep learning;
- Construction of forestry information platforms and IoT perception systems and improvements in their real-time monitoring capabilities;
- Application and utilization of artificial intelligence and deep learning models for classification, prediction, and planning optimization;
- Exploration of digital twin and virtual simulation in forest management, ecological restoration, and landscape pattern design;
- Application and evaluation of intelligent methods in assessing the response forests to climate change and achieving carbon neutrality.

Guest Editors

Dr. Zixuan Qiu

Prof. Dr. Zhongke Feng

Dr. Huiqing Pei

Deadline for manuscript submissions

31 May 2026

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.

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