

Special Issue

Forest Vegetation Dynamics and Environmental Monitoring Using GIS and Remote Sensing

Message from the Guest Editor

The integration of GISs and RS with methods such as machine learning, numerical modeling, and multi-criteria analysis enables the identification of processes such as deforestation, desertification, and land use change, as well as zoning areas at risk of wildfires. The timely identification of negative environmental changes will facilitate the application of adequate nature protection measures (recultivation, revitalization, and afforestation) to implement sustainable development and management strategies for forest ecosystems. This Special Issue welcomes contributions including, but not limited to, the following topics:

- Forest monitoring and management;
- Wildfire risk assessment;
- Vegetation indices;
- Multi-sensor satellite data fusion;
- Monitoring changes in forest ecosystems;
- GISs and remote sensing applications;
- Artificial intelligence (AI);
- Numerical modeling;
- Fuzzy logic-based multi-criteria decision making;
- Forest protection measures.

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).