

Special Issue

Machine Learning Techniques in Forest Mapping and Vegetation Analysis

Message from the Guest Editors

Understanding and analyzing forest vegetation are crucial for both the conservation and optimal utilization of natural resources. Due to rapidly advanced technologies and computational capacities, in recent years, machine learning and deep learning have emerged as powerful tools in the realm of forest mapping. This Special Issue aims to delve deep into innovative applications of these techniques for understanding forest terrains and vegetation dynamics. We invite research that uses machine learning and deep learning methodologies to analyze, categorize, and monitor forest vegetation and its various features across different scales. The areas of interest for this Special Issue encompass:

- Deep learning models for vegetation classification and monitoring;
- Machine learning algorithms for forest segmentation and object detection;
- Predictive models for species identification using machine learning;
- Applications of UAV, airborne, or satellite data in conjunction with machine learning;
- Analysis using RGB, multispectral, or hyperspectral imagery paired with deep learning algorithms;
- The integration of LiDAR, optical, infrared, and radar data with machine learning models...

Guest Editors

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Deadline for manuscript submissions

closed (15 April 2024)



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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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