

Special Issue

Advances in Remote Sensing and GIS Utilization in Monitoring of Forest Ecosystems: 2nd Edition

Message from the Guest Editors

Global forests are experiencing unprecedented pressures from climate change and anthropogenic activities. Recent advances in remote sensing (RS), geographic information systems (GISs), artificial intelligence (AI), and cloud computing have created unprecedented opportunities for forest observation and analysis. Multi-source Earth observation datasets derived from satellite, airborne, UAV, and LiDAR platforms now enable high-resolution monitoring of forest dynamics at regional to global scales. In particular, deep learning, machine learning, and time-series analysis techniques have rapidly transformed forest research by improving the detection, classification, prediction, and interpretation of complex ecological processes. Long-term remote sensing time series provide valuable insights into forest succession, disturbance recovery, vegetation phenology, and climate–forest interactions, while advanced AI frameworks offer powerful tools for extracting information from increasingly large and heterogeneous datasets. This Special Issue aims to bring together cutting-edge research exploring innovative applications of RS and GIS in forest science, ecology, management, and policy.

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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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