

Special Issue

Innovations in Forest Fire Detection and Monitoring: Integrating GISs, Remote Sensing, and AI

Message from the Guest Editors

This Special Issue seeks to consolidate recent advances, methodologies, and innovative applications at the nexus of GISs, remote sensing, AI, and forest fire management. I invite researchers, practitioners, and experts to contribute their insights, findings, and strategic visions to foster an interdisciplinary dialogue. Topics of interest include, but are not limited to, the following:

- Advanced GIS applications in forest fire detection and mitigation;
- State-of-the-art remote sensing technologies in fire management;
- Leveraging big data analytics in predicting wildfire patterns;
- AI and machine/deep learning models for real-time fire monitoring;
- Integration of disparate data sources for enhanced forest fire response;
- Challenges and solutions in data fusion analysis for fire detection;
- Proactive forest fire management strategies using AI;
- Predictive analysis of forest fire susceptibility and risk;
- Novel forest fire surveying methods harnessing GISs and remote sensing;
- The role of advanced tech in post-fire recovery and landscape restoration.

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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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