Special Issue

Forest Disturbance Monitoring by Remote Sensing: Advancements and Applications

Message from the Guest Editors

Monitoring forest disturbances is essential for understanding and sustaining ecosystem health and resilience. As environmental pressures intensify, the accurate detection, quantification, attribution, and impact assessment of disturbances using remote sensing technologies have become increasingly critical. We welcome cutting-edge research that addresses a wide range of forest disturbance—from abrupt events (e.g., wildfires and logging) to gradual processes (e.g., pest outbreaks and drought stress). Emphasis is placed on bridging science and forest management to support informed decision-making. Topics of interest include, but are not limited to, the following:

- Advanced algorithms for disturbance detection and classification;
- Multi-source and multi-temporal data fusion for disturbance attribution;
- Near-real-time monitoring systems and early warning frameworks;
- Forest pests and diseases monitoring and ecological risk assessment;
- Disturbance severity and recovery assessment methodologies;
- Quantification of ecological impacts, including carbon dynamics and biodiversity;
- Operational applications in forest management and policy support.

Guest Editors

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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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