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Monitoring and Control of Forest Pest and Disease

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Message from the Guest Editor

As climatic changes and their effects on forest ecosystems have become more evident over recent years, forest monitoring has proven to be more relevant than ever. Climate change could alter the frequency and intensity of forest disturbances such as insect outbreaks, the occurrence of invasive species, and wildfires. Severe damage caused by invasive pests and pathogens can become devastating, covering vast areas of forests that pose a threat to economically important tree species. Remote sensing data and terrestrial observations could present information for the sizes of areas, deteriorated by biotic, abiotic, and fire damage, the health status of vegetation, and observation of the habitat in which pests and diseases are spreading out. The assessment of the harmful impact and spread of the most important insect pests and fungal pathogens is essential for making decisions about their control. We encourage studies from all fields, including experimental studies and monitoring approaches to contribute to this Special Issue to promote knowledge and adaptation strategies for the assessment of health status and deterioration, preservation, and management of forest ecosystems.

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