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Afforestation to Enhance Ecosystem Services and Reduce Negative Impacts

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Message from the Guest Editors

As a nature-based solution, afforestation plays a vital role in combating global warming, land degradation, and biodiversity loss. It is necessary to rationally optimize afforestation patterns and tree species based on input–output analysis, linear programming, machine learning, and other spatial optimization analysis methods by considering the costs and benefits of forest from multiple perspectives, so as to enhance regional ecosystem services and reduce negative impacts.

This Special Issue plans to give an overview of the most recent advances in the field of afforestation pattern optimization and ecological management.

Potential topics include, but are not limited to:

Forest monitoring and assessment;
Forest ecosystem functions and services;
Urban and regional forest spatial pattern optimization;
Cost and benefit analysis of afforestation;
Impacts of climate change and human activities on forests;
Ecological planning and management;
Model simulation and scenario analysis.

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Message from the Editorial Board

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