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The Role of Spatial Analysis in Planning Multi-Functional Forest Roads and Transport Routes

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Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

Forestry management is an important component of sustainable land use, which aims to provide economic, environmental, and social benefits. Forest roads and the planning of optimal transport routes are crucial in facilitating access to forest resources, enabling the transportation of forest products and workers and supporting conservation efforts. However, the development and use of forest roads can also negatively impact the environment. Therefore, planning and managing forest roads and transport routes in a way that balances their various functions is essential. In recent years, spatial analysis has emerged as a cutting-edge research area for planning and managing forest roads and transport routes. This involves using geographic information systems (GIS) and other geospatial tools to analyze spatial data and make informed decisions about the location and design of forest roads and optimization of transport routes. The scope of this topic includes various aspects of forest road planning and management, including road location, design, construction, and maintenance, as well as the use of geospatial tools for analyzing and visualizing forest road data.



mdpi.com/si/171768

Special Issue



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Journal Rank: JCR - Q1 (*Forestry*) / CiteScore - Q1 (*Forestry*)

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