Special Issue

Spatial Data Science for Forest Mobility and Accessibility

Message from the Guest Editors

Spatial data science is reshaping how we understand and optimize movement within forest environments. Forest mobility and accessibility—whether for timber extraction, emergency response, military operations, recreation, or autonomous systems—depend on accurate knowledge of terrain conditions, vegetation structure, and natural or human-made obstacles. Advances in geospatial technologies, including RGB and multispectral imagery, LiDAR, GNSS, UAVs, and inertial navigation systems, now enable detailed characterization of forest stands, microrelief, and route networks with high precision. Topics of interest include, but are not limited to, the following:

- Modeling movement and routing in forest stands.
- Remote sensing-based mobility assessment.
- Modeling terrain trafficability in forested areas.
- Maneuverability modeling around trees and natural obstacles.
- Influence of microrelief on mobility.
- Impacts of heavy vehicles on soils, roots, and forest health.
- GNSS and multisensor navigation under canopy.
- Autonomous and robotic systems for forest mobility.
- Meteorological influences on mobility and accessibility.

Guest Editors

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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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