

Special Issue

Applications of Advanced Technologies for Improved Precision in Forest Operations

Message from the Guest Editors

Forest operations have undergone profound transformations with the integration of advanced technologies to achieve superior precision in decision making. Sensing technologies like lidar, stereo cameras, and radar are crucial to this evolution, collectively contributing to a heightened perception of the forest environment. In tandem with these sensing technologies, advanced global navigation satellite systems (GNSS) ensure the precise location tracking of machines, trees, and infrastructure, forming a foundational element of efficient forest management. Potential topics include, but are not limited to:

- Use of sensing technology (e.g., lidar, depth/RGB cameras, radar) for improved forest operations
- ML and AI algorithms and applications for tree detection and mapping of the forest operations environment
- Applications of advanced technologies for the location of machines, trees, and infrastructure
- Planning of operations using remote and short-range sensing technology and optimization algorithms
- Impact of driver-assisting sensing technologies on productivity and safety
- Robotic systems and autonomous vehicles guided by sensors

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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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