# **Special Issue**

### LiDAR Remote Sensing for Forestry

### Message from the Guest Editors

Forests are essential to maintaining ecological function, biodiversity and the health of the planet. To better investigate forest resources and promote the study of tree growth mechanisms, it is urgent to obtain more accurate and timely forest inventory information. In recent decades, with continuous improvements made to the measurement accuracy and sampling rates of laser scanners, LiDAR has been widely employed for calculating tree metrics, estimating above-ground biomass (AGB), and identifying tree species remotely. Nonetheless, existing studies continue to encounter the challenges of low accuracy or low robustness across different forest environments. Thus, this Special Issue focuses on the latest studies addressing forest inventory using LiDAR technology. The scope of this Special Issue includes, but is not limited to, the following topics:

- Multi-platform point cloud fusion
- Filtering for forest environment
- Individual tree detection
- Biomass estimation
- Tree species identification
- Quantitative structure modeling for trees
- Forest parameters estimation
- Forest ecology
- Carbon cycle analysis
- Forest planning and management

### **Guest Editors**

Prof. Dr. Zhenyang Hui Prof. Dr. Penggen Cheng Prof. Dr. Bo Liu Dr. Mark Vanderwel

Deadline for manuscript submissions

31 August 2025



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### Message from the Editor-in-Chief

*Forests* (ISSN 1999-4907) is an international and crossdisciplinary, 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.

#### Editor-in-Chief

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