Special Issue

UAV Applications for Forest Management: Wood Volume, Biomass, and Mapping (Second Edition)

Message from the Guest Editors

This Special Issue seeks to gather innovative applications of UAVs (unmanned aerial vehicles) in forest-related research. Contributions may focus on forest inventory and management, as well as studies involving forest canopy height measurement, attribute assessment, biomass estimation, disease detection, forest and biodiversity mapping, canopy gap analysis, and wildfire monitoring among other relevant topics. This Special Issue aims to showcase cutting-edge research on UAV-based approaches for forest assessment, emphasizing innovations in remote sensing techniques, machine learning applications, and data integration methods to enhance the accuracy and efficiency of forest resource management.
Contributions may include, but are not limited to, the following:

- Wood volume and biomass estimation using UAV-derived data;
- High-resolution forest mapping for biodiversity and conservation;
- AI and deep learning for automated tree detection and health assessment;
- Multi-sensor fusion (LiDAR, hyperspectral, thermal) for improved forest analytics;
- UAV applications in wildfire risk assessment and post-fire recovery.

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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