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Lidar for Forest Parameters Retrieval

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closed (15 September 2024)

Message from the Guest Editors

Dear Colleagues,

LiDAR technology has played a significant role in forest research for decades, facilitating the retrieval of important forest parameters, including biomass, leaf area index, and individual tree health classification. Nevertheless, LiDAR-derived metrics often exhibit site- or sensor-specific characteristics, which can present a challenge when extending the application of evaluated approaches to diverse geographical areas and/or sensor platforms such as spaceborne, airborne, UAV, MLS, and TLS systems. The acquisition of dense point clouds and their computational processing at a large scale can be exceedingly demanding, in terms of both acquisition time and processing power. Recent studies have further shed light on the carbon emissions associated with the computational and storage requirements of Earth observation data. It is, therefore, important to implement adaptable, scalable, and computationally inexpensive approaches for tackling forest-related problems.

Furthermore, with the advancement of artificial intelligence approaches, there are still questions about the best approaches, including traditional machine learning approaches, deep neural networks

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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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