Special Issue

Satellite LiDAR for Vegetation Structure and Biomass Estimation: Advances with ICESat-2 and GEDI

Message from the Guest Editors

This Special Issue aims to bring together cutting-edge research leveraging ICESat-2 and GEDI data for vegetation remote sensing. We welcome studies that improve retrieval algorithms; develop data fusion techniques; validate canopy height and biomass products; and apply LiDAR observations to ecological monitoring, forest management, or climate modeling. The scope aligns closely with the *Remote Sensing* journal's interests in novel sensing technologies, large-scale monitoring, and Earth system science. Topics of interest include (but are not limited to) the following:

- Forest canopy height inversion from ICESat-2 or GEDI;
- Biomass estimation models using LiDAR and multisource data;
- LiDAR data fusion with Sentinel, Landsat, or SAR imagery;
- Machine learning applications for vegetation structure retrieval;
- Validation and uncertainty assessment of spaceborne LiDAR products;
- Long-term forest dynamics and disturbance detection;
- LiDAR applications in non-forest ecosystems (e.g., savannas or shrublands).

Guest Editors

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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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