

Special Issue

Remote Sensing for Vegetation Biophysical and Biochemical Parameters Retrieval

Message from the Guest Editors

Around 60% of Earth's land is biologically active vegetation. Plant biochemical/biophysical parameters—leaf area index, leaf mass per area, biomass, leaf/canopy chlorophyll/water, plant nitrogen/carbon, crop yield—are key to understanding forest and agricultural ecosystem functioning, monitoring, and productivity. In this Special Issue, original research articles, reviews, and communications are welcome. Research areas may include (but are not limited to) the following: Spaceborne, airborne, and UAV field imaging spectroscopy and its role for high-accuracy retrieval of vegetation traits; Advances in leaf (e.g., PROSPECT-PRO) and canopy (e.g., 4SAIL) RTMs and inversion techniques; Comparison of different sensors, algorithms, and methods for vegetation trait retrieval from Terrestrial Earth Observation data; Active learning and Principal Component Analysis (PCA) for model optimization by reducing sample and spectral dimension; Upscaling of vegetation traits from leaf to the canopy level by combining ground truth data, MLRs, and RTM outputs; The pixel-based uncertainty quantification for models' transferability assessment using independent datasets on different conditions.

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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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