Special Issue

Spaceborne SAR Data Processing and Its Application in Forest Biophysical Parameter Mapping and Change Monitoring

Message from the Guest Editors

Spaceborne Synthetic Aperture Radar (SAR)-derived large-scale high-resolution products of forest biophysical parameters (such as forest aboveground biomass and height) are critical variables for quantifying the global terrestrial carbon storage and modeling the dynamics of the carbon cycle. This Special Issue aims to solicit original articles on advanced spaceborne SAR data processing methods with an emphasis on their applications in forest biophysical parameter mapping and change monitoring, which include, but are not limited to: 1. Advanced data processing methods of modern spaceborne SAR data; 2. Novel inversion algorithms for determining the status and change of vegetation vertical structure and forest biophysical parameters through the use of advanced spaceborne SAR-based approaches; 3. Algorithms for creating large-scale products of forest biophysical parameters; 4. New electromagnetic scattering models for interpreting and simulating SAR observations of forests; 5. Recent progress in airborne radar campaigns as well as field inventory experiments for different types of forest in support of the cal/val activities for spaceborne SAR missions.

Guest Editors

Prof. Dr. Yang Lei

Dr. Robert Treuhaft

Prof. Dr. Paul Siqueira

Deadline for manuscript submissions

closed (30 November 2024)

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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.

Editor-in-Chief

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