

Special Issue

SAR and Deep Learning for Forest Monitoring

Message from the Guest Editors

As a vital natural resource, forests are of extreme importance for all living beings on our planet. We would like to dedicate this Special Issue to the documentation of SAR-based methods in combination with artificial intelligence (AI), and in particular, deep learning (DL), for forest mapping, forest degradation monitoring, vegetation parameter retrieval and forest resource assessment. Well-prepared, unpublished submissions that address one or more of the following topics are solicited:

- New methods for the retrieval of forest structure parameters from SAR data using AI;
- DL-based methods and multi-sensor data fusion for forest information retrieval;
- New DL-based methods and concepts for the quantitative assessment of forest biomass;
- Feasibility studies with new sensors, ranging from drones to spaceborne SAR systems and their applications to forestry;
- New DL-based approaches for the detection of forest changes and degradation;
- AI methods for the detection of anomalies or areas at risk for fire outbreaks;
- Scalability: the refinement of forest parameter estimates at the global scale.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 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.

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