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SAR and Deep Learning for Forest Monitoring

Guest Editors:

Dr. Paola Rizzoli
Microwaves and Radar Institute, German Aerospace Center (DLR), 82234 Wessling, Germany

Dr. Elise Colin-Koeniguer
DTIS-Onera (France), Université Paris Saclay, 91123 Palaiseau, France

Deadline for manuscript submissions:
closed (31 March 2024)

Message from the Guest Editors

Dear Colleagues,

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 Well-prepared, unpublished submissions that address one or more of the following topics are solicited: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.

Dr. Paola Rizzoli
Dr. Elise Colin-Koeniguer
Guest Editors

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Editor-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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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Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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remotesensing@mdpi.com
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