Special Issue

Radiative Transfer Modeling and Vegetation Traits Retrieved by Multispectral Remote Sensing

Message from the Guest Editors

Integrating radiative transfer models (RTMs) with multispectral remote sensing improves vegetation trait retrieval accuracy and addresses the challenges relating to environmental heterogeneity. This synergy advances vegetation monitoring technologies, supporting ecological research, environmental management, and sustainable development. Studies on RTM integration with emerging platforms, multisource data fusion, and diverse ecological applications are highly encouraged. Articles may address, but are not limited, to the following topics:

- Radiative transfer model (RTM) development and applications;
- Three-dimensional canopy structure modeling and simulation;
- Integration of RTMs with multispectral remote sensing;
- Vegetation trait retrieval using RTMs;
- Precision agriculture supported by RTMs and remote sensing;
- RTM application in climate change studies;
- Advancements in vegetation optical property modeling;
- Emerging remote sensing platforms and RTM integration;
- Multisource data fusion and synergy of RTMs in vegetation monitoring;
- Radiative transfer models and data-driven integration;
- Leaf trait retrieval on multisource data fusion.

Guest Editors

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Deadline for manuscript submissions

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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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