

Special Issue

Multi-Source Remote Sensing Data Fusion for Hydrological Modelling

Message from the Guest Editors

This Special Issue aims to bring inspiring concepts, innovative methodologies, advanced tools, and practical applications of multiple remote sensing fusion for hydrological modelling. Suggested themes:

- Novel multisource remote sensing data fusion approaches for generating consistent and reliable hydrological model inputs, parameters and outputs;
- Next-generation hydrological modelling frameworks seamlessly integrating multisource remote sensing datasets;
- Application, evaluation, and benchmarking of multisource remote sensing products for improving hydrological simulation and prediction;
- Data assimilation, uncertainty quantification, and error propagation analysis using multisource remote sensing datasets in hydrological modelling;
- Machine learning, deep learning, and hybrid approaches for hydrological modelling driven by multisource remote sensing data;
- Multiscale hydrological prediction using integrated satellite, UAV, radar, and ground-based observations;
- Remote sensing fusion for flood inundation forecasting, drought monitoring and water resources assessment;
- Review and synthesis studies on recent advances, challenges, and future directions in remote sensing for hydrological modelling.

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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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