



Remote Sensing of Hydrological Processes: Modelling and Applications

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Message from the Guest Editors

This Special Issue aims to disseminate state-of-the-art research articles and emerging ideas using remote sensing and geospatial technologies of water cycle processes, including:

- New methods and techniques, particularly related with the development and application of satellite missions, radar, airborne and drone sensors, to monitor spatially distributed hydrological processes (such as precipitation, evapotranspiration, soil moisture, groundwater infiltration, and surface water runoff) as well as wetlands and water bodies, across a wide range of temporal scales;
- New techniques to use spatially distributed remote sensing data for spatial calibration and validation of hydrological models, suitable for ungauged basins;
- Use of remote sensing data for global and regional hydrological applications and water resource management, to support decision taking as a way to predict and resolve water conflicts in a changing climate and with increasing demands on limited water supplies; and
- Application of remote sensing for the study of the impact of human activities on the hydrological cycle (especially infiltration and runoff generation); floods, droughts and water resource availability.

Special Issue



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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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