

Special Issue

Remote Sensing Data Assimilation in Hydrology: Towards an Improved Understanding of the Global Water Cycle and Human Impacts

Message from the Guest Editors

In the last decades, the hydrological science research has enabled significant advances in the understanding of water storage and fluxes over the continents using remote sensing data. The data from these missions are important not only for improving our understanding of the hydrological processes, but also for enhancing representation of extremes such as droughts and floods. As a result of its global coverage at reasonable temporal resolution, hydrologists have been exploring ways to use multi-sensor satellite data to improve computational models, eg., data assimilation and optimization techniques. The aim of this special issue is to gather a collection of latest developments and innovative applications of remote sensing data assimilation and integration into hydrological models. We invite contributions using the ample range of remotely sensed information through data assimilation, optimization and other innovative merging techniques to improve the numerical representation of hydrological processes, impacts of human activities on the water cycle and extreme hydrological event (e.g., droughts and floods) monitoring and forecast.

Guest Editors

Dr. Augusto Getirana

Dr. Sujay Kumar

Dr. Benjamin Zaitchik

Deadline for manuscript submissions

closed (31 January 2022)



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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.

Editor-in-Chief

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