Special Issue

Remote Sensing of Surface Water Systems at the Catchment to Global Scale: Measuring and Modelling Using Remote Sensing Techniques

Message from the Guest Editors

Remote sensing has been proliferating in recent years. A series of recently launched satellites provide new data for understanding the water cycle and freshwater resources. Commercial satellites with hyper spatial and temporal resolutions are in orbit. Airborne remote sensing has been increasingly used for monitoring surface water systems. The improved remote sensing techniques and exponentially increased remote sensing data, accompanied with advanced analytical tools, provide unprecedented opportunities for monitoring surface water systems and informing water resources management at various spatial and temporal scales. The aim of this Special Issue is to cover studies that use remote sensing to address scientific and operational challenges in river/lake science from local to global scales. Topics may include improving the ability of remote sensing to quantify surface water variables using new satellite and airborne remote sensing technologies (e.g., Sentinel-2, Sentinel-3, ICESat-2, SWOT, PlanetScope, and UAVSAR), advanced approaches (e.g., data fusion, machine learning, and data assimilation), or efficient analytical tools dealing with big remote sensing data.

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Deadline for manuscript submissions

closed (15 December 2023)

Remote Sensing

About the Journal

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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