Special Issue

River and Lake Dynamic Monitoring and Ecological Assessment Based on Remote Sensing

Message from the Guest Editors

This Special Issue aims to present studies that address the various uses of remote sensing data and techniques in water quality, water quantity, hydrology monitoring, and ecological assessment for inland waters; it also highlights the recent advancements in the use of remote sensing to assess water cycle processes, with a particular focus on hydrological and water quality parameters. We welcome submissions that include, but are not limited to the following topics:

- Water cycle, climate, greenhouse gases, and ecosystems;
- Data-driven hydrologic process learning;
- Intelligent extraction of water information with remote sensing techniques;
- Remote sensing inversion models of water quality parameters;
- Water pollution identification with remote sensing techniques;
- Novel application of remote sensing techniques in water resources and water environment monitoring;
- Climate or human-induced spatio-temporal variation of water quality in coastal, estuarine, and inland waters;
- Applications of artificial intelligence (AI) and/or machine learning approaches;
- .....

Guest Editors

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closed (15 September 2025)

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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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