Special Issue

Machine Learning and Automation in Remote Sensing Applied in Hydrological Processes

Message from the Guest Editors

The aim of this Special Issue is to provide state-of-the-art knowledge in the field of remote sensing for hydrological processes through the means of machine learning, neural networks, deep learning, artificial intelligence, automation techniques, etc., and promote new approaches and techniques in the field. This Special Issue addresses (but is not limited to) the following topics:

- Machine learning for hydrological processes;
- Neural networks applied in water-related topics;
- Methodological studies;
- Remote sensing applied in hydrology;
- Automation techniques;
- Tools developed in GIS software (such as ArcGIS, QGIS, Snap, etc.);
- Google Earth Engine;
- Drought analyses;
- Flood risk analyses;
- Automated and semi-automated classifications;
- Artificial intelligence in water studies;
- Water budget analyses;
- Deep learning applications in hydrology;
- Morphometric studies;
- WebGIS platforms for online automation, etc.

Guest Editors

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Dr. Marina Iosub

Dr. Fiachra O'Loughlin

Deadline for manuscript submissions

14 January 2026

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.

Editor-in-Chief

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