Special Issue

Advanced Artificial Intelligence and Deep Learning for Remote Sensing (3rd Edition)

Message from the Guest Editors

This Special Issue aims to report the latest advances and trends concerning advanced AI and DL techniques applied to remote sensing data processing issues. Papers of both theoretical and applicative nature, as well as contributions regarding new AI and DL techniques for the remote sensing research community, are welcome. For this Special Issue, we invite experts and scholars in the field to contribute to the latest research progress of AI and DL in the fields of Earth observation, disaster warning, surface multi-temporal changes, environmental remote sensing, optical remote sensing, and different sensor detection and imaging, to further promote the technological progress in this field. The topics include but are not limited to the following:

- Object detection in high-resolution remote sensing imagery.
- SAR object detection and scene classification.
- Target-oriented multi-temporal change detection.
- Infrared target detection and recognition.
- LiDAR point cloud data processing and scene reconstruction.
- UAV remote sensing and scene perception.
- Big data mining in remote sensing.
- Interpretable deep learning in remote sensing.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2026)

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Message from the Editorial Board

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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