Special Issue

Machine Learning Using Medium and High-Resolution Remote Sensing Datasets

Message from the Guest Editors

Remote sensing data have become higher resolution and more accessible in recent years. The rapid developments in machine learning technologies have led to innovative applications with remote sensing data. Although machine learning has shown great potential for remote sensing applications, the lack of high-quality training data, the explainability, and the reproducibility have limited the wide adoption of machine learning in remote sensing communities. Fortunately, recent efforts in building benchmark training data for remote sensing applications and explainable machine learning technologies are changing the landscape of machine learning applications in remote sensing communities. This Special Issue aims to showcase innovative research using machine learning and remote sensing data in climate and environmental studies as well as human–landscape dynamics and the Anthropocene. Topics of interest include, but are not limited to:

- climate informatics
- land use/land cover classification
- creating benchmark machine learning (ML) training data
- historic environmental data
- explainability of ML models for environmental studies
- automated feature extraction and/or classification

Guest Editors

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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.

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