Special Issue

Advances in AI-Driven Remote Sensing for Geohazard Perception

Message from the Guest Editors

The integration of artificial intelligence into remote sensing has revolutionized the perception of geohazards. Advancements in remote sensor technologies have enhanced the ability to detect and analyze the geohazards. AI algorithms have further improved the accuracy and efficiency of interpreting extensive remote sensing datasets, enabling the rapid identification of potential threats and informing disaster response strategies. This Special Issue invites original research and review articles that explore cutting-edge AI methodologies applied to remote sensing for geohazard perception. The scope of this Special Issue includes, but is not limited to, the following:

- AI-based algorithms for the automated feature extraction and pattern recognition of remote sensing data;
- AI-driven geohazard mapping, susceptibility mapping, and risk assessment;
- Deep learning approaches for the monitoring, prediction, and early warning of geohazard events;
- Integration of multi-sensor data (satellite, airborne LiDAR, radar, and UAV imagery) for enhanced geohazard detection, recognition, monitoring, and analysis;
- Real-time processing and decision support systems for emergency management.

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.

Editor-in-Chief

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