Special Issue

Precipitation, Flood and Earthquake Events Monitoring, Simulation, Analysis and Early Warning by Advanced Environmental Remote Sensing and AI

Message from the Guest Editors

Climate change has led to an increase in the frequency of natural disasters and extreme weather events, such as heavy precipitation, flooding, and earthquakes, along with their impacts, raising significant concern. Advanced technologies, such as microwave detection, remote sensing, radar, and optical fiber sensing, can be utilized to construct an integrated sky–ground and underground three-dimensional monitoring network. This Special Issue aims to include papers which discuss, but are not limited to, the following topics:

- Advances and new findings that enhance the accuracy of precipitation monitoring and short-term precipitation nowcasting;
- Exploring high-resolution fiber-optic acoustic sensing equipment and imaging technologies for geophysical exploration;
- Research on physical models and numerical methods for flood prediction, simulation, monitoring, analysis, and early warning;
- Disaster monitoring and disaster mitigation and avoidance simulation;
- The advancement of environmental remote sensing and AI technologies and their applications in disaster prevention and management.

Guest Editors

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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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