Special Issue

Advances in GIS and Remote Sensing Applications in Natural Hazards

Message from the Guest Editors

The increasing global population and the impact of climate change have led to a rise in natural hazards, such as droughts, heat waves, storm surges, hurricanes, wildfires, and flooding. These events can result in the loss of life, property damage, socio-economic disruption, and environmental damage globally. Natural hazard modeling and analysis is the foundation of natural disaster risk management, assessment, and policymaking. Understanding the impacts of natural disasters often involves a broad and interdisciplinary research approach. The development of recent technologies, such as Geographic Information System (GIS), Remote Sensing (RS), and artificial intelligence (AI) / machine learning (ML) provides the opportunity to better monitor, model, and quantify natural hazards.
Topics:

- Natural hazard modeling;
- Disaster mapping and damage assessment;
- Hazard and vulnerability assessments;
- Risk mapping and quantifications;
- Applications of GIS, RS, AI, and ML;
- Droughts, heat waves, storm surges, and coastal environments;
- Multi-scale modeling and real-time data application;
- Multi-source multimodal data fusion for natural hazard applications.

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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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