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Artificial Intelligence and Remote Sensing for Natural Hazard and Disaster Management

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Deadline for manuscript submissions:
closed (30 November 2024)

Message from the Guest Editors

Artificial intelligence (AI), in combination with remote sensing (RS), has shown significant potential in a wide range of applications, including detection, mapping, and monitoring of natural hazards, such as floods, earthquakes, landslides, snow avalanches, wildfires, droughts, volcanic eruptions, hurricanes, and tsunamis.

Tremendeous advances in remote sensing technologies are connected to improved spatio-temporal resolution and increased coverage. Enablers, such as open data access and the development of user-friendly open-source AI tools, facilitate a wide spectrum of applications within the geosciences.

We invite submissions that may include, but are not limited to, the following topics:

- Mapping of (historical) events
- (Near) real-time hazard monitoring
- Remote sensing for risk analysis and damage assessment
- Single and multi-hazard detection, modeling, and prediction
- Explainable and interpretable AI for informed decision making
- Responsible AI for natural hazard mitigation
- Physical model integration
- Multisensor data fusion
- Benchmark datasets for model validation

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Special Issue

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Editor-in-Chief

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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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