



Machine Learning in Engineering Geology

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Message from the Guest Editors

Dear Colleagues,

In this Special Issue, we aim to gather high-quality original research articles, reviews, and technical notes on recent advances in the use of machine learning for engineering geology and geotechnical tasks.

To explore the potential, but also the limitations, we would like to invite contributions on innovative implementations of machine learning for different tasks in engineering geology, geotechnics, and other related challenges. Original contributions are solicited in relevant areas including, but not limited to, the following:

- Feature detection and object-based image classification to detect, e.g., landslides, rock fall deposits, faults, etc., in remotely sensed data at different scales, e.g., satellite or drone, optical images or digital elevation data, hyperspectral data, etc.;
- Point cloud classification, e.g., for rock mass characterization;
- Time series analysis/forecasting, e.g., for deformation monitoring or rainfall threshold estimation;
- Ground-breaking innovations in landslide susceptibility and hazard modelling;
- Methodological issues, such as the quality and quantity of input data and labeled data;
- Data processing and image processing.





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Editor-in-Chief

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Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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