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Deep Rock Engineering Disasters and Interactions between Soil, Rock, and Groundwater

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Deadline for manuscript submissions:
closed (20 September 2022)

Message from the Guest Editors

Dear Colleagues,

The disaster monitoring of rock engineering plays a key part in the construction of major projects, especially for the deep rock mass in the tunnel of hydroelectric engineering and railway construction. The monitoring and analysis by the use of different methods or devices often focus on interactions and fractures. All these monitoring and analysis methods could provide a way to solve the disaster monitoring problem and promote technical development.

This Special Issue is open to papers addressing the monitoring and analysis of engineering disasters, especially for interaction problems between soil, rock, and groundwater during the construction of deep geotechnical engineering and geomechanics. We aim to publish contributions on novel disaster monitoring and analysis methods, including new constitutive schemes, particularly the advanced monitoring approaches of micro-seismic monitoring, ultrasonic investigation, and borehole cameras. Practical applications of these advanced approaches to real disaster monitoring problems are particularly welcome.

Prof. Dr. Bingrui Chen
Dr. Xianjian Zou
Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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