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Predictive Modeling in Mining and Geotechnical Engineering

Guest Editor:

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Message from the Guest Editor

Mining and geotechnical engineering are two critical research fields closely related in their study of the characteristics and behaviors of soil and rock. Due to the highly complicated and non-linear behavior of Earth's materials, predicting the performance of natural and man-made geostructures is challenging in both of the abovementioned fields of research. Predictive modeling using artificial intelligence methods has been of great help to researchers in these fields in the past three decades.

This Special Issue focuses on applying predictive models in mining and geotechnical engineering and invites submissions of cutting-edge research, case studies, including, but not limited to, analysis and prediction of properties and behavior of geomaterials, analyzing and monitoring slope stability, performing geotechnical hazard mapping and susceptibility analysis, studying seismic hazards and active tectonic zoning, identifying and treating contaminated and problematic soils, predicting ground settlement due to mining and tunneling activities, analyzing problems associated with the presence of water and modeling geo-problems related to climate change.

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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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