Special Issue

Intelligent Technologies for Understanding and Controlling the Impact of Geological Disasters on Construction

Message from the Guest Editors

Geological disasters associated with engineering construction seriously restrict the sustainable exploitation of large-scale resources. The geological disasters impacting construction are varied, such as rockburst in deep tunnels and mines, landslide of reservoir slopes, and collapses in underground powerhouses. In recent years, the technology for testing, monitoring and preventing these disasters has made great progress. These achievements play a vital role in ensuring the safety and sustainability of major projects. However, under the background of global industrial intelligent reform, the intelligent level of disaster observation and prevention technology needs to be improved. This Special Issue aims to collect innovative achievements in intelligent technologies toward understanding and controlling the impact of geological disasters on the built environment.

- Laboratory test technology of disasters
- Intelligent perception technology for disaster prevention
- Big data analysis of disaster precursor information
- Disaster warning cloud platforms based on deep learning
- Self-decision technology and equipment for disaster control

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