



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

Guest Editors:

Dr. Yaxun Xiao

Wuhan Institute of Rock and Soil
Mechanics Chinese Academy of
Sciences, Wuhan, China

Prof. Dr. Yanchun Yin

College of Energy and Mining
Engineering, Shandong
University of Science and
Technology, Qingdao 266590,
China

Dr. Haitao Li

Chinese Institute of Coal Science,
Beijing 100013, China

Deadline for manuscript
submissions:

2 July 2024

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





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (*Geography, Planning and Development*)

Contact Us

Sustainability Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)