

## Monitoring and Prevention of Dynamic Disasters in Deep Underground Engineering

Guest Editors:

**Dr. Zhibo Zhang**

**Dr. Hongtu Zhang**

**Dr. Chao Wang**

**Dr. Dong Chen**

Deadline for manuscript  
submissions:

**31 July 2024**

### Message from the Guest Editors

As the population grows rapidly and the economy develops continuously all over the world, energy consumption and the demand for space are rapidly increasing, and it has become an inevitable trend to seek deep resources and space. With the rapid development of deep underground engineering, the risk of dynamic disaster increases significantly, caused by high temperature, high stress, or high water pressure, posing a significant threat to the normal operation of deep underground engineering and the life safety of operators.

This Special Issue aims to provide an opportunity for researchers around the globe to conduct a broader scientific and technological discussion on monitoring and preventing dynamic disasters in deep underground engineering. The discussion topics include but are not limited to, dynamic disaster mechanisms, dynamic disaster prediction, and dynamic disaster control. Original research and review articles are welcome.

For further information, please follow the link to the Special Issue Website at:

<https://www.mdpi.com/si/178068>



## Editor-in-Chief

**Prof. Dr. David Arditi**

Construction Engineering and  
Management Program,  
Department of Civil,  
Architectural, and Environmental  
Engineering, Illinois Institute of  
Technology, 3201 South  
Dearborn Street, Chicago, IL  
60616, USA

## Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

## Author Benefits

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

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (*Architecture*)

## Contact Us

---

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

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/buildings](http://mdpi.com/journal/buildings)  
[buildings@mdpi.com](mailto:buildings@mdpi.com)  
[X@Buildings\\_MDPI](https://twitter.com/Buildings_MDPI)