

Special Issue

Innovative Monitoring Techniques and Modeling Approaches for Natural Hazards

Message from the Guest Editor

Natural hazards are common worldwide and, more often than that, cause catastrophic consequences including considerable deaths and economic losses. Given that many people and environments suffer from these hazards every year, these events are receiving increasing attention and investigation from both the science community and local authorities. Hazards can originate in different sources and systems, such as geological, atmospheric, hydrological, oceanographic, volcanological, and seismic; therefore, it is important to monitor and model them with the aim of reducing and mitigating the risk. The aim of this Special Issue is to provide an outlet for studies that propose and develop innovative monitoring techniques and modeling approaches for natural hazards. We encourage submissions regarding the following fields: field investigation and monitoring; early-warning systems; multiple-hazard modelling and assessment; numerical simulation; GIS-based risk assessment; and hazard prediction.

Guest Editor

Dr. Zizheng Guo

1. School of Civil and Transportation Engineering, Hebei University Technology, Tianjin, China
2. Faculty of Engineering, China University of Geosciences, Wuhan 430074, China

Deadline for manuscript submissions

closed (20 November 2024)



Inventions

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 4.9



mdpi.com/si/169499

Inventions
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
inventions@mdpi.com

[mdpi.com/journal/
inventions](https://mdpi.com/journal/inventions)





Inventions

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 4.9



[mdpi.com/journal/
inventions](https://mdpi.com/journal/inventions)



About the Journal

Message from the Editorial Board

The unique journal *Inventions* is different from all other journals. Many scholars spend their lives publishing research papers in many different journals, but most of these journals do not help scholars collate and analyze their results or assist in promoting them to a relevant industry. However, *Inventions* will help authors not only to publish their papers in the journal, but also to promote their research results to industry and assist them in realizing the purpose of technology transfer. In the future, *Inventions* will help authors to evaluate their technology license fees based on the valuation theory and approaches and also help authors to show their patents and technologies on a network transaction platform.

Editors-in-Chief

Prof. Dr. Chien-Hung Liu

Department of Mechanical Engineering, National Chung Hsing University, 250 Kuo Kuang Rd., Taichung 402, Taiwan

Prof. Dr. Shouu-Jinn Chang

Department of Electrical Engineering, National Cheng Kung University, Tainan 701, Taiwan

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).