Special Issue

Advances in Earthquake Geotechnical Engineering: Challenges and Solutions

Message from the Guest Editors

This Special Issue is intended for the presentation of new ideas, new knowledge, new findings from field investigations, experimental results and numerical simulations, and engineering practices in the field of earthquake geotechnical engineering—from testing, experimentation, design, servicing, and theory to practical use. This Special Issue seeks to collect original articles and reviews on topics including, but not limited to, the following:

- Recent advances in the seismic design and analysis of tunnels and underground infrastructure.
- Ground, foundation, and structural measures against liquefaction.
- Geotechnical seismic isolation.
- Resillient applications in earthquake geotechnical engineering.
- The consideration of seismic input, site effect, and dynamic soil–structure interation in seismic design.
- The challenges and solutions of recent geotechnical earthquake disasters including landslides and flow slides, liquefaction, and subsidence.
- Geotechnical earthquake engineering with geosynthetics.

Guest Editors

Dr. Lanmin Wang

1. Lanzhou Institute of Seismology, China Earthquake Administration, Lanzhou 730000, China
2. School of Civil Engineering and Mechanics, Lanzhou University, Lanzhou 730000, China

Prof. Dr. Gang Wang

Department of Civil & Environmental Engineering, Hong Kong University of Science and Technology, Hong Kong, China

Deadline for manuscript submissions

30 October 2025

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/235099

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

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