Special Issue

Soil Dynamics and Earthquake Engineering

Message from the Guest Editor

Recent advancements in AI technology have led to the development of various estimation and prediction methods. In the field of seismology, notable examples include earthquake magnitude and location prediction, phase picking, and artificial wave generation using GANs. In geology, Al-based estimation models are being developed for layer formation, significantly enhancing the accuracy of subsurface predictions. However, regardless of how advanced AI technology becomes, progress will stagnate without a fundamental understanding of core principles. Therefore, it is crucial to emphasize basic theoretical foundations. In advanced geological and seismic engineering research. it is essential to focus not only on Al convergence but also on developing models that adhere to fundamental principles. This Special Issue invites authors to submit articles on advances in soil dynamics and earthquake engineering. Keywords

- geology
- seismic engineering
- earthquakes
- seismology
- geotechnical investigation
- geotechnical engineering

Guest Editor

Prof. Dr. Jae-Kwang Ahn

Department of Fire & Emergency management, Kangwon National University, Samcheok-si 25949, Republic of Korea

Deadline for manuscript submissions

20 November 2025



Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/221459

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



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 multidimensional 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)

