

Special Issue

Advanced Technologies and Applications in Geotechnical Engineering

Message from the Guest Editors

As global infrastructure systems face increasing demands from climate change, urbanization, and environmental sustainability, geotechnical engineering is undergoing a transformative shift. Advances in intelligent geotechnical materials, sensing technologies, and numerical modeling are playing a critical role in improving infrastructure resilience and performance across terrestrial and marine environments.

This Special Issue aims to present innovative research and practical developments that address current and future challenges in the field. Key areas of interest include offshore and marine geotechnics, biogeotechnics, soil erosion and in situ protection, multiphysics coupling numerical techniques, and climate-resilient infrastructure design. Topics such as the durability of engineering structures, corrosion protection and repair, in situ detection and monitoring technologies, and sustainable engineering solutions are also central to this Issue. We invite researchers, engineers, and practitioners to contribute original research articles, reviews, case studies, and technical notes that offer insight into emerging technologies and applications in geotechnical engineering.

Guest Editors

Dr. Yujie Li

Ocean College, Zhejiang University, Zhoushan 316021, China

Prof. Dr. Jin Xia

College of Civil Engineering and Architecture, Zhejiang University, Hangzhou 310058, China

Prof. Dr. Zhen Guo

College of Civil Engineering and Architecture, Zhejiang University, Hangzhou 310058, China

Deadline for manuscript submissions

20 September 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/251355

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

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



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, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

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