## Special Issue

## Advanced Technology in Geotechnical Engineering

## Message from the Guest Editor

This Special Issue focuses on the microscale and mesoscale mechanisms driving innovations in geotechnical engineering. We invite research exploring advanced technologies such as micro-CT imaging. discrete element modeling (DEM), molecular dynamics. and nano-indentation techniques to unravel soilstructure interactions, particle-scale behavior, and fabric evolution. Contributions to Al-enhanced micromechanical analysis, in situ microstructural characterization, and multiscale modeling approaches are particularly encouraged. Studies should emphasize fundamental mechanisms, experimental advancements, or computational methods that bridge micro/meso observations with macro-scale geotechnical performance. Both theoretical and experimental investigations addressing the interplay between material science and geomechanics are welcome. Join us in advancing the understanding of geotechnical phenomena from the ground up.

### **Guest Editor**

Prof. Dr. Qingrong Xiong School of Civil Engineering, Shandong University, Jinan 250061, China

## Deadline for manuscript submissions

30 October 2025



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## 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

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