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Earthquake-Resistant Design of Geotechnical Structure

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Deadline for manuscript submissions:
closed (20 September 2022)

Message from the Guest Editors

The core of the seismic design of geotechnical structures is to reduce earthquake damage as far as possible. Under seismic conditions, understanding the physical and mechanical properties of rock and soil masses can provide specific guidance in geotechnical engineering design and construction. The Special Issue entitled “Earthquake-Resistant Design of Geotechnical Structures” covers a wide range of research topics related to geotechnical earthquake engineering. The possible topics of this Special Issue include:

- Wave propagation, wave scattering and dynamic crack propagation in rock and soil masses exhibiting elastic or inelastic material behavior;
- Dynamic soil-structure interactions;
- Dynamic constitution of materials;
- Performance-based seismic design of geotechnical structures;
- Seismic response of geotechnical structures;
- Instrumentation and experimental methods for geotechnical earthquake engineering.

The Special Issue also welcomes works on related topics, provided that such topics are within the context of the broader scope of “Earthquake-Resistant Design of Geotechnical Structures”.

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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 multi-dimensional network.

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