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Geotechnical Testing Technology: Development and Applications

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Message from the Guest Editors

Considering the fact that both rock and soil are engineering media with extremely complex physical properties and that underground space structures (e.g., pile foundations, basements, subways, tunnels, pipe galleries, etc.) are always invisible, geotechnical testing technology is a significant scientific approach to evaluating the specific physical and mechanical performances of geotechnical engineering projects. It is also the basis for engineering design, construction safety, and long-term engineering monitoring. Moreover, with the ever-growing need for high-rise buildings, large foundation pits, deep-water engineering, and dredger-fill soft soil, geotechnical testing techniques are facing greater demands and are increasingly utilized to investigate ultra-large particle rockfill materials, frozen soil, gas hydrates, and other artificial geosynthetics.

In this Special Issue, we invite submissions exploring cutting-edge research and recent advances in the field of geotechnical testing technology. Both theoretical and experimental studies are welcome, as well as comprehensive reviews and survey papers.

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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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