Special Issue

Key Technologies for Urban Underground Space Development in Coastal Soft Soil Areas

Message from the Guest Editors

In recent years, the “urban diseases” caused by the rapid expansion of coastal cities have become increasingly prominent. The full development of urban underground space resources and the overall planning of the integrated and comprehensive utilization of above-ground and underground space have become key measures to improve the overall carrying capacity and resilience of the city. Due to the complex engineering properties of coastal soft soil, and the fact that underground engineering projects tend to be large-scale, dense, and three-dimensional, it is urgent to reveal the coordination mechanism of geological body-structure deformation under complex conditions and explore the key technology path to ensure the safety and resilience of the construction operation and maintenance of the underground space in coastal cities.

This Special Issue plans to systematically review and forecast the frontier development of underground space development technology in coastal soft soil areas from multiple dimensions, such as underground space development theory, construction technology, intelligent monitoring, and environmental impact control.

Guest Editors

Dr. Jianlin Yu

Prof. Dr. Riqing Xu

Prof. Dr. Changfu Chen

Dr. Jiajin Zhou

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

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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

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