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Research on Underground Engineering and Geomechanics

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Message from the Guest Editors

With rapid development of underground infrastructures, including deep underground spacing, hydropower engineering, mountain tunneling, deep and long tunneling in clay and sand area, underground storage, oil & gas storage, more and more problems have emerged in underground engineering and geomechanics. New construction technologies incorporating various building materials have been used into underground engineering to ensure the quality and efficiency of design, construction, operation, maintenance, and deconstruction of buildings. There is an urgent need in identifying the optimal uses of construction technologies and materials in different building project processes, determining the benefits of these applications to building projects as well as to the various stakeholders involved, and providing solutions that address challenges in construction of underground engineering.

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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