Special Issue

Research on Rock Mechanics and Rock Engineering, Geotechnical Engineering and Mining Sciences in Construction

Message from the Guest Editors

Rocks and soils, as the main focus of geotechnical research, have a complicated structural and geotechnical stress field environment. The engineering properties of different geotechnical bodies are often complex and regional due to the different geological processes they undergo. Geotechnical engineering is an applied science that requires the use of theoretical knowledge, test results and engineering experience for proper analysis. The challenges arising in civil engineering construction have contributed to the development of geotechnical research. For these reasons, it is worthwhile to explore the direction of geotechnical research development in the future and the trends that it will present. The main aim of this Special Issue is to explore the research on rock mechanics and rock engineering, geotechnical engineering and mining sciences in construction. The topics include, but are not limited to:

- Rock mechanics and rock engineering;
- Soil mechanics and foundation engineering;
- Mining engineering;
- Tunnelling engineering;
- Geoenvironmental and petroleum engineering;
- Offshore geotechnical engineering;
- Energy geotechnical engineering and so on.

Guest Editors

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About the Journal

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.

Editor-in-Chief

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