

Special Issue

Tunnel Construction and Underground Space Technology

Message from the Guest Editors

Tunnels and underground engineering are often built in complex geological environments that present many problems, such as high ground stress, high geothermal temperature, frequent geological disasters, and disasters induced by engineering activities. Tunnel construction is faced with risks of complex diversity, dynamic changes, and great harm. Refined construction standard systems, geological information collection and transmission, and theories and methods of underground structure design play crucial roles in tunnel engineering. Therefore, this Special Issue aims to encourage researchers in tunnel construction and underground space technology to submit their original work with the goal of improving the safety and efficiency of engineering construction. Research papers related to tunnel and underground engineering are welcome, including, but not limited to, construction standard systems, engineering information monitoring, structural design theories, and geological risk assessments.

Guest Editors

Dr. Qi Zhang

Prof. Dr. Guozhu Zhang

Dr. Xiaobin Ding

Deadline for manuscript submissions

closed (31 March 2023)



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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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