

Special Issue

Smart Technologies for Sustainable and Resilient Underground Infrastructures

Message from the Guest Editors

Recent decades have witnessed a worldwide surge in urban underground spatial development. Such trends are primarily driven by a need to address pressing urban challenges, such as land scarcity, traffic congestion, and environmental degradation. Rapidly expanding underground infrastructure systems (including components such as utility networks, metro systems, underground roads, pedestrian networks, public spaces, disaster-resistant structures, and storage facilities), are crucial for modern high-density cities. They provide essential services related to transportation, utilities, and public amenities. Accordingly, this Special Issue, titled “Smart Technologies For Sustainable and Resilient Underground Infrastructures”, aims to showcase cutting-edge research and development in the application of smart technologies for enhancing the sustainability and resilience of modern underground infrastructure. It seeks to foster a deeper understanding of how these technologies can be leveraged to improve the planning, design, construction, operation, and maintenance of underground systems, ultimately contributing to better urban built environments.

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