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# **Design, Construction and Maintenance of Underground Structures**

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Deadline for manuscript submissions:

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## **Message from the Guest Editors**

Dear Colleagues,

We are pleased to invite you to submit a manuscript to our Special Issue of Buildings. As we all know, high risk and safety issues are associated with underground engineering, which should be given high priority and reliably addressed at the design, construction and operation stages. This Special Issue aims to provide a venue for communicating original achievements and new insights into the design, construction and maintenance of underground engineering structures. The topics of interest are broad, covering new design concepts, construction technologies maintenance technologies and in underground engineering, within the context of experimental studies (field tests, indoor tests and material tests), mechanical modeling and numerical simulation approaches. Highquality case studies and critical literature reviews are also welcome.

Prof. Dr. Sulei Zhang Dr. Xiaoming Guan Dr. Chang Liu Guest Editors











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## **Editor-in-Chief**

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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, 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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