## Special Issue

## Underground Space Construction and Digital Management

## Message from the Guest Editors

With the continuous development of underground space, deep underground engineering faces greater challenges. High-energy disasters, such as rockburst, fault slip, and large deformation, threaten the stability of underground structures. Underground structures are not only affected by the mechanical properties of the rock itself but also by the number and geometry of joints. A large number of experiments have shown that the influence of joint properties on structural stability is more significant. Deep rock is in a high-stress state before excavation and exhibits highly nonlinear mechanical behavior when disturbed, which cannot be effectively explained by traditional shallow rock mechanics theory. Therefore, the stability study of underground structures under high-stress and highenergy environments is particularly important. With the increase in excavation depth, underground structures will inevitably be subject to dynamic disturbances caused by earthquakes, blasting, fault activity, etc., resulting in large deformation and rockburst, threatening construction safety.

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## Deadline for manuscript submissions

closed (31 October 2025)



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## **Editor-in-Chief**

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