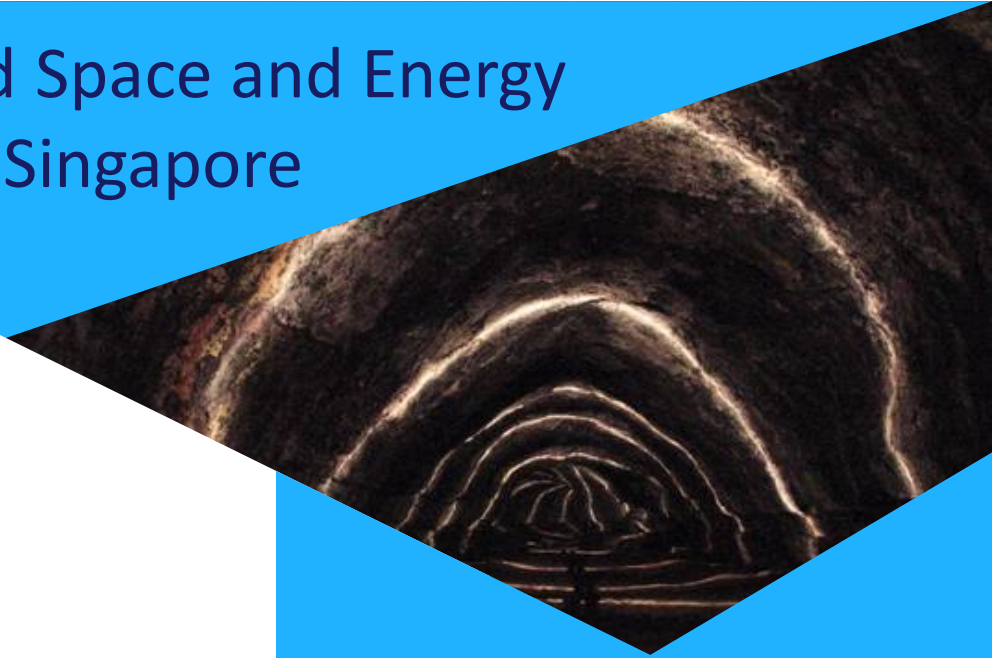


# Underground Space and Energy Potentials in Singapore



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Professor Jian Zhao is a professor of rock mechanics at Monash University since 2013, a Fellow of the International Society for Rock Mechanics and Rock Engineering since 2015, and the Editor-in-Chief of International Journal of Rock Mechanics and Mining Sciences since 2019. After obtaining a PhD on rock mechanics at Imperial College London in 1987, he was a faculty of Nanyang Technological University of Singapore for 15 years and then a professor of rock mechanics and tunnelling at Ecole Polytechnique Fédérale de Lausanne of Switzerland for 10 years. He teaches and researches rock mechanics and underground technology at universities and practises geotechnical and underground engineering through consulting.



Date: 28<sup>th</sup> Oct 2020, 14:00-15:00  
Scan QR code for registration:

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## Abstract

The presentation covers two sub-topics that are closely associated with the future development of underground space and renewable energy in Singapore. The first topic is to present a new approach on enhanced geothermal energy system (EGS) in deep hot rock with excavated hot water reservoir for enhanced energy extraction and production. The second topic is on the studies of building world largest rock cavern in Singapore, based on the experiences on cavern development in Singapore and world.