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# **Mathematical Problems in Rock Mechanics and Rock Engineering**

Guest Editors:

### Message from the Guest Editors

Prof. Dr. Shaofeng Wang With the increasing requirements for energy, resources and space, numerous rock engineering projects are more often Dr. Lingi Huang being constructed and operated in large-scale environments with complex geology. Meanwhile, rock Dr. Xin Cai failures and rock instabilities occur more frequently, and Dr. Zhengyang Song severely threaten the safety and stability of rock engineering projects. It is well-recognized that rock has multi-scale structures, from minerals, particles, fractures, fissures, joints, and stratification, to fault, and involves Deadline for manuscript multi-scale fracture processes. Meanwhile, rocks are submissions: closed (30 September 2022) commonly subjected simultaneously to complex static stress and strong dynamic disturbance. Therefore, our understanding of rock mechanics and the prevention and control of failure and instability in rock engineering needs to be furthered.

> The primary aim of this Special Issue is to bring together original research discussing innovative efforts regarding in situ observations, laboratory experiments and theoretical, numerical, and big-data-based methods to overcome the mathematical problems related to rock mechanics and rock engineering. Submissions showcasing the latest developments in this field are welcome.



mdpi.com/si/121080







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## **Editor-in-Chief**

#### Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

### Message from the Editor-in-Chief

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*Mathematics* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/mathematics mathematics@mdpi.com X@MathematicsMDPI