

**Special Collection to be published in the Journal of Rock Mechanics and
Geotechnical Engineering**
Computational and Numerical Modeling in Fractured Earth Systems

Scope

This special issue aims to highlight and summarize recent advances in THMC coupling processes in fractured earth systems, particularly those using computational and numerical modeling approaches. Contributions will be based on selected submissions to CouFrac 2022, the **3rd International Conference on Coupled Processes in Fractured Geological Media: Observation, Modeling, and Application**, which will be held in Berkeley, California on November 14-16 of 2022.

The planned topics of the special collection will include:

- Mathematical, computational, and numerical modeling that considers coupled THMC processes ranging from micro- to full-scales;
- Hydraulic fracturing in rocks and sediments;
- Fluid flow and solute transport in geological media;
- Nuclear waste disposal, coal mines, CO₂ sequestration, enhanced oil recovery, and geothermal energy development;
- Machine learning applications in the earth sciences and engineering.

Instructions for Authors

Authors should follow *Journal of Rock Mechanics and Geotechnical Engineering* manuscript requirements:
<https://www.elsevier.com/journals/journal-of-rock-mechanics-and-geotechnical-engineering/1674-7755/guide-for-authors>

Acceptance Criteria

Submitted manuscripts will go through the regular peer-review process of the journal, with stringent quality control by the Guest Editors.

Editors for Volume

Hideaki Yasuhara, Ehime University, Matsuyama, Japan
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Special Issue Timeline

Deadline for manuscript submission: August 1, 2023
Online publication of the last accepted article: February 1, 2024
Publication of the Special Collection: April 1, 2024