



Multiscale and Multiphysics Modeling of Sub-Surface Geological Systems (2nd Edition)

Guest Editor:

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Message from the Guest Editor

The dynamic nature of the sub-surface environment involves a wide variety of processes and is reflective of the constantly changing form of the earth. The versatility of these geological events includes a broad spectrum of activities involving different phases of materials, their individual and collective behaviour within several physical fields, and the disparity of their responses when viewed at varying temporal and spatial scales. In recent decades, significant advances have been made towards understanding and predicting the characteristics of the geological features that have been explored. These achievements have led to advancements in areas such as oil and gas exploitation, groundwater abstraction, geological storage, tunnelling, deep excavations, foundation and basement construction, and the harvest of geothermal energy. However, a great proportion of the geological environment, as well as many aspects of pertinent geological processes, still remain insufficiently investigated. This Special Issue aims to create awareness of the gap in research in these areas and to intensify the drive for further assessment and reporting of geological systems.

