Special Issue

Multiscale and Multiphysics Modeling of Sub-Surface Geological Systems

Message from the Guest Editors

The versatility of 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, a lot has been achieved 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 is particularly the case with respect to multiphysics, multiphase, and multiscale aspects of surface and underground systems. This Special Issue serves to create awareness of the gap in research in these areas and to intensify the drive for further assessment and reporting of geological systems.

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Message from the Editor-in-Chief

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