Special Issue

Digital Rock Analysis

Message from the Guest Editor

Digital rock physic (DRP), digital rock analysis, or computational rock physic techniques are becoming a standard tool in special core/sample analysis in many areas, including enhanced hydrocarbon recovery, mineral exploration, geothermal energy, groundwater resources, CO2 sequestration, and others. The numerical simulation of various physical and chemical processes in digital rock samples allows for pore-scale analysis and upscaling of rock properties, such as electric resistivity, permeability, etc. Moreover, DRP allows for the non-destructive assessment of different scenarios at in situ and ex situ conditions. For examples, CO2 sequestration or the injection of non-condensable gases into geothermal fields causes rock matrix dissolution or mineral precipitation, changing all the macroscopic properties of rocks, thus requiring detailed preliminary numerical study before applying this to real aquifers.

We wish to invite you to contribute a manuscript to a Special Issue of Geosciences devoted to advancements in digital rock physics, including but not limited to 3D imaging, image processing, mathematical modeling, numerical modeling, and case studies.

Guest Editor

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Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherentset of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientificallybased political decisions.
We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

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