Special Issue

New Insights into Digital Rock Physics

Message from the Guest Editors

As reservoir resources continue to be optimized, outstanding technical challenges urgently require the development and implementation of technologies and methodologies. Along with the development of digital imaging technology, the imaging and visualization of core material at the pore scale and the subsequent physical characterization can provide important insights into the properties of reservoir rocks. Digital imaging technology bridges multiple subjects, such as geology, physics, reservoir simulation, and machine learning. Over the past few decades, imaging, modeling, and quantification have made a significant influence on the academic community and are becoming important techniques to guide the relevant industrial developments. From a research perspective, the accurate acquisition of images, the precise identification and quantification of mineral composition and structure, and appropriate numerical modeling or direct macroscopic characterization methods are still challenging tasks. For more information on the Special Issue, please visit LINK https://www.mdpi.com/journal/applsci/special_issues/4E2GYB2U8E

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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