InterPore2021



Contribution ID: 636

Type: Poster (+) Presentation

Digital Rock Typing

Friday, 4 June 2021 09:40 (1 hour)

Towards the quest for accuracy and efficient characterization of heterogeneous cretaceous carbonate, the path for geology and data scientists is full of challenges. The main challenge for achieving both accuracy and efficiency simultaneously is the ability to have the machine understand the heterogeneity effect on the rock's physical properties. From rock micro-Computed Tomography (uCT) images to rock types, we propose a fully artificial intelligence-based workflow. We enable the machine to identify the pore throat heterogeneity types, determine the rock's physical static properties; porosity, lithology, permeability, and capillary pressure, then finally classify the rock types using the novel Carbonate Morphology Chart, CAMO Chart.

Time Block Preference

Time Block A (09:00-12:00 CET)

References

Acceptance of Terms and Conditions

Click here to agree

Newsletter

Student Poster Award

Primary authors: AL-FARISI, Omar (Khalifa University of Science and Technology); Prof. SASSI, Mohamed (Khalifa University); Dr OUZZANE, Djamel (ADNOC)

Presenter: AL-FARISI, Omar (Khalifa University of Science and Technology)

Session Classification: Poster +

Track Classification: (MS15) Machine Learning and Big Data in Porous Media