

InterPore2021

Monday 31 May 2021

MS15: MS15 (1) (09:40-11:55)

time	[id] title	presenter
09:40	[21] Promises, Challenges and Prospects of Deep Learning for Providing Insight into Multi-phase Flow Through Porous Media	Mr ASADOLAHPOUR, Seyed Reza
09:55	[87] Research on pore-scale hydrate permeability prediction based on machine learning	BU, Ziwei
10:10	[90] Applying Machine Learning Methods to Speed Up Two-Phase Relative Permeability Upscaling	Mr WANG, Yanji
10:25	[83] Deep learning enhancement of micro-CT images for large-scale flow simulation	Dr JACKSON, Samuel
10:40	[161] Accelerating Micro-Macro Models for Two-Mineral Reactive Systems with Machine Learning	GÄRTTNER, Stephan
10:55	[324] Flux Regression Performances of Deep Learning in Discrete Fracture Networks	DELLA SANTA, Francesco
11:10	[391] Deep-learning-based surrogate model for brine extraction well placement for geological carbon storage	YOON, Hyunjee
11:25	[585] Particle transport and filtration in 2D and 3D porous media: coupling CFD and Deep Learning	Dr MARCATO, Agnese
11:40	[617] Inter-well Connectivity Analysis and Productivity Prediction Based on Intelligent Connectivity Model	Mr JIANG, Yunqi Prof. ZHANG, Kai

Thursday 03 June 2021

MS15: MS15 (2) (18:00-20:00)

time	[id] title	presenter
18:00	[423] CCSNet: a deep learning modeling suite for CO2 storage	Ms WEN, Gege
18:15	[455] Semantic segmentation of microCT and FIB-SEM rock images using deep learning methods	RINGER, Jack
18:30	[489] Heterogeneity Evaluation of Microstructures in a Sandstone Reservoir Using Micro-CT Imagery	KONG, Lingyun
18:45	[503] Non-intrusive reduced order modeling of natural convection in porous media	KADEETHUM, Teeratorn
19:00	[521] Geostatistical Inversion in Geologic CO2 Sequestration Using a Variational Autoencoder	Dr CHEN, Bailian
19:15	[564] Machine learning prediction of Lennard-Jones fluid self-diffusion in pores	LEVERANT, Calen
19:30	[590] Physics Impact on Deep Neural Networks for Multiphase Flow in Porous Media	YAN, Bicheng PAWAR, Rajesh
19:45	[779] Integrating Machine Learning into a Methodology for Early Detection of Wellbore Failure	MATTEO, Edward

Friday 04 June 2021

MS15: MS15 (3) (10:40-11:40)

time	[id] title	presenter
10:40	[203] Prediction of Flow and Reactive Transport using Physics-Informed Neural Networks	LIU, Vincent
10:55	[319] Integrating process-based reactive transport modeling and machine learning for surrogate model development: an application to electrokinetic remediation of contaminated groundwater	Mr SPROCATI, Riccardo
11:10	[668] Robust porous media flow control using Deep Reinforcement Learning	DIXIT, Atish