

InterPore2021

Monday, May 31, 2021

MS15: MS15 (1) (9:40 AM - 11:55 AM)

| time | [id] title | presenter |
|----------|---|-------------------------------------|
| 9:40 AM | [21] Promises, Challenges and Prospects of Deep Learning for Providing Insight into Multi-phase Flow Through Porous Media | Mr ASADOLAHPOUR, Seyed Reza |
| 9:55 AM | [87] Research on pore-scale hydrate permeability prediction based on machine learning | BU, Ziwei |
| 10:10 AM | [90] Applying Machine Learning Methods to Speed Up Two-Phase Relative Permeability Upscaling | Mr WANG, Yanji |
| 10:25 AM | [83] Deep learning enhancement of micro-CT images for large-scale flow simulation | Dr JACKSON, Samuel |
| 10:40 AM | [161] Accelerating Micro-Macro Models for Two-Mineral Reactive Systems with Machine Learning | GÄRTTNER, Stephan |
| 10:55 AM | [324] Flux Regression Performances of Deep Learning in Discrete Fracture Networks | DELLA SANTA, Francesco |
| 11:10 AM | [391] Deep-learning-based surrogate model for brine extraction well placement for geological carbon storage | YOON, Hyunjee |
| 11:25 AM | [585] Particle transport and filtration in 2D and 3D porous media: coupling CFD and Deep Learning | Dr MARCATO, Agnese |
| 11:40 AM | [617] Inter-well Connectivity Analysis and Productivity Prediction Based on Intelligent Connectivity Model | Mr JIANG, Yunqi Prof. ZHANG, Kai |

Thursday, June 3, 2021

MS15: MS15 (2) (6:00 PM - 8:00 PM)

| time | [id] title | presenter |
|---------|---|-------------------------------|
| 6:00 PM | [423] CCSNet: a deep learning modeling suite for CO2 storage | Ms WEN, Gege |
| 6:15 PM | [455] Semantic segmentation of microCT and FIB-SEM rock images using deep learning methods | RINGER, Jack |
| 6:30 PM | [489] Heterogeneity Evaluation of Microstructures in a Sandstone Reservoir Using Micro-CT Imagery | KONG, Lingyun |
| 6:45 PM | [503] Non-intrusive reduced order modeling of natural convection in porous media | KADEETHUM, Teeratorn |
| 7:00 PM | [521] Geostatistical Inversion in Geologic CO2 Sequestration Using a Variational Autoencoder | Dr CHEN, Bailian |
| 7:15 PM | [564] Machine learning prediction of Lennard-Jones fluid self-diffusion in pores | LEVERANT, Calen |
| 7:30 PM | [590] Physics Impact on Deep Neural Networks for Multiphase Flow in Porous Media | YAN, Bicheng PAWAR, Rajesh |
| 7:45 PM | [779] Integrating Machine Learning into a Methodology for Early Detection of Wellbore Failure | MATTEO, Edward |

Friday, June 4, 2021

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

| time | [id] title | presenter |
|----------|--|-----------------------|
| 10:40 AM | [203] Prediction of Flow and Reactive Transport using Physics-Informed Neural Networks | LIU, Vincent |
| 10:55 AM | [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 AM | [668] Robust porous media flow control using Deep Reinforcement Learning | DIXIT, Atish |