

InterPore2024

Monday, 13 May 2024

MS07: 1.1 (11:25 - 12:25)

time	[id] title	presenter
11:25	[157] Simulation of density-driven flow in heterogenous and fractured porous media	WITTUM, Gabriel
11:40	[391] Multilevel Monte Carlo Method for Simulation of Propagation of Uncertainties in Fractured Porous Media	Dr LOGASHENKO, Dmitry
11:55	[347] A Hybrid-Dimensional Stokes--Brinkman--Darcy Model: Derivation, Analysis and Validation	RUAN, Linheng

Tuesday, 14 May 2024

MS07: 2.2 (12:00 - 13:00)

time	[id] title	presenter
12:00	[16] A robust two-level overlapping preconditioner for Darcy flow in high-contrast porous media	Prof. CHUNG, Eric
12:15	[915] Exploration of robust and fast L-splitting schemes for nonlinear double degenerate equations	JAVED, Ayesha
12:30	[125] Stable unfitted finite element method for poroelasticity with weak discontinuity	Prof. LIU, Zhijun
12:45	[859] Multiscale Extended Finite Element Method for the Simulation of Fractured Geological Formations	XU, Fanxiang

Wednesday, 15 May 2024

MS07: 3.1 (10:55 - 11:55)

time	[id] title	presenter
10:55	[532] Thermodynamically consistent modeling and simulation of two-phase flow and multicomponent flow in porous media with rock compressibility	Dr CHEN, Huangxin
11:10	[734] Multiscale modeling of multiphase compressible non-isothermal fluid flow in deformable porous media	ZHENG, Xiaojin
11:25	[461] A Lagrangian Simulation Framework for Multiphase Flow and Transport in Fractured Porous Media	Mr MONGA, Ranit
11:40	[778] Quantifying Uncertainty in the Predictive Power of Multi-Scale Pore-Scale Modeling of Complex Microporous Media	FOROUGH, Sajjad

MS07: 3.2 (12:00 - 13:00)

time	[id] title	presenter
12:00	[102] Bridging Microscale Physics to Macroscale Models in Confined Porous Media	Dr ARYANA, Saman
12:15	[373] A lattice Boltzmann based Darcy-Brinkman-Stokes method for micro-continuous two-phase flow	Mr LIU, Yang
12:30	[925] Fully coupled implicit discretization for large-scale simulation of miscible multiphase flow in heterogenous porous media	LU, Shuai