

SAMM 2020: Learning Models from Data

Thursday, July 30, 2020

Posters 3 (1:00 PM - 2:00 PM)

time	[id] title	presenter
1:00 P	[M3] Deep learning based model reduction approaches in flow models	WANG, Yiran
1:00 P	[M0] The use of machine learning in Computational Fluid Dynamics for an economic approach to flow optimization problems.	Mr SCHATZDORFER, Georg
1:00 P	[M10] Deep learning of superstructures in turbulence	SCHALLER, Manuel PHILIPP, Friedrich WILSON, Mitsuru
1:00 P	[M3] The Construction and Application of Surrogate Models for Sensitivity Analysis	SUN, Xifu
1:00 P	[M9] Data-based soil-tool interaction force prediction based on measurements and the Discrete Element Method	Mr JAHNKE, Jonathan
1:00 P	[M4] Machine Learning Algorithms for Learning Nonlinear Terms of Reduced Mechanical Models in Explicit Structural Dynamics	Mr KNEIFL, Jonas
1:00 P	[M5] Basis Generation Techniques for Symplectic Model Order Reduction	BUCHFINK, Patrick
1:00 P	[M5] Physics Guided Deep-Learning Based Nonlinear Reduced Order Model for Aeroelastic Applications	Dr HALDER, Rahul
1:00 P	[M7] Enhancing battery recharge performance by combined Machine Learning and PDE modelling	Mrs MONTI, Angela
1:00 P	[M2] Stochastic frequency domain surrogate models for linear structural dynamics	SCHNEIDER, Felix
1:00 P	[M1] Data-driven Reduced Order Model of Flow-Induced Piezoelectric Energy Harvesters	Ms SHANG, Lan
1:00 P	[M6] Data-Driven Learning of Reduced-Order Dynamics for a Parametrized Shallow Water Equation	YILDIZ, Süleyman
1:00 P	[M8] Deep Kernel approaches with a Neural-Network-like structure	WENZEL, Tizian
1:00 P	[M6] Chance-constrained optimal control of hyperbolic supply systems	LUX, Kerstin
1:00 P	[M0] Stochastic Grey-box Model of the Flow-Front Dynamics	Dr RELAN, Rishi
1:00 P	[M9] Data-driven computational continuum mechanics	Mr CHAU, Vu
1:00 P	[M00] Quantifying incompressible two-phase flow fields from the interface movement using physics-informed neural networks	Mr BUHENDWA, Aaron
1:00 P	[M8] A data-driven physics-informed finite-volume scheme for nonclassical undercompressive shocks	Mr BEZGIN, Deniz A
1:00 P	[M1] Model Reduction for Advection Dominated Problems	TORLO, Davide
1:00 P	[M4] Data-based Approach for Fault Diagnosis of Hydropower Rotors	Mr SPERBER, Christian
1:00 P	[M6] Insights into squealing disk brakes through explainable machine learning for time series data	STENDER, Merten

1:00 PM	[13] Can machine learning methods be used to create parametrized reduced models of vibro-acoustic systems?	AUMANN, Quirin
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