

AIFLUIDs 2026 Posters

No	Name	Affiliation	Poster Title
1	Kento Tajitsu	Tokyo City University, Japan	<i>Data-Driven Discovery of Disjoining Pressure Model for Liquid Film Flows</i>
2	Asahi Shimizu	Tokyo City University, Japan	<i>Data-driven Discovery of Constitutive Models for Coupled Heat and Fluid Flows</i>
3	Kaho Hikita	Tokyo City University, Japan	<i>Aerodynamic Shape Optimization using Variational Auto-Encoder and Physics-Informed Neural Networks</i>
4	Keito Hoshiyama	Tokyo City University, Japan	<i>Data-driven discovery of free energy function for two-phase flow from mDPD data</i>
5	Luis Medrano-Navarro	Technical University of Munich (TUM), Germany	<i>Scalable Transformer for Unstructured Physics Simulations</i>
6	Xiao Xiao	IFPEN, France	<i>Development of Deep-Active-Learning Neural Networks for the Real Fluid Modeling (RFM) Framework – Application to the LOX-GH₂ Mixing Layer Benchmark</i>
7	Yimin Zhang	Beihang University, China	<i>Explicit Embedding of Flow Directionality and Advection Operators in Neural Architectures for High-Fidelity Fluid Dynamics Prediction</i>
8	Vincent Seyfried	Dept. of Particulate Flow Modelling, Johannes Kepler University Linz, Austria	<i>From Neural Surrogates to Neural Twins</i>
9	Hyungmin Shin	DLR (German Aerospace Center), Germany	<i>PeakCNN for particle image localization: Examples, variations, and improvements</i>
10	Tommaso Baffetti	Université Libre de Bruxelles	<i>A Transformer-Based Reduced-Order Model for Reactive Flows Dynamics</i>
11	Mohammadmahdi Nouri	Otto-von-Guericke-University Magdeburg, Germany	<i>End-to-End Trainable Hybrid Model for PT-Phase-Split: Neural K-Value Correction with an Implicit Rachford–Rice Layer</i>
12	Amelie Lam	Laboratoire Lagrange, France	<i>Solver-In-The-Loop Training with Multistep Inputs for Capturing Fine-Scale Turbulence</i>
13	Roberto Dal Monte	Università degli Studi di Padova, Italy	<i>Probabilistic Near-Wall Turbulence Modeling via Physics-Guided Diffusion Model</i>
14	Albert Pool	German Aerospace Center (DLR), Germany	<i>Optimisation strategies for variational quantum simulation of a battery cell model</i>
15	Ruihan Zhang	Tsinghua University, China	<i>Super-Resolution Predictive Initialization Using Neural Operators for Accelerating CFD Simulations</i>
16	Semanur Kucuk	Delft University of Technology, The Netherlands	<i>Automated Image-Based Classification of Air Lubrication Flow Regimes Using Deep Learning</i>
17	Tobias Rentschler	University Stuttgart, Institute of Fluid Mechanics and Hydraulic Machinery (IHS), Germany	<i>Transformer-Based Quadrilateral Block-Structured Mesh Generation</i>
18	Fabio Santos	Laboratorio Nacional de Computación de Alto Rendimiento, Brazil	<i>Adaptive Quantum Physics-Informed Neural Networks (AQPINN) for Solving PDEs</i>