

2nd International Symposium on AI and Fluid Mechanics					
Mini Symposia, Monday 31st August 2026					
08:15-08:45		Registration and Coffee			
08:45-08:55		Room D: Welcome Address, Prof. M. Gavaises (City St George University, UK)			
		Room D: Quantum Computing for CFD		Room E: AI and Experimental Fluid Mechanics	
		Chair: Dr Felix Tennie		Chairs: Dr Simo Makiharju and Dr Nikolaos Prsianakis	
09:00-09:45		Michael Lubasch, Quantinuum Ltd, UK	Andreas Schröder, DLR and BTU Germany		
		Quantum circuits for partial differential equations in Fourier space	3D Lagrangian Particle Tracking and data assimilation in fluid mechanics		
09:45-10:30		Peter Brearley, University of Manchester, UK	Stefano Discetti, U Carlos III Madrid, Spain		
		Encoding general non-unitary operations on quantum computers with exponential accuracy	Machine learning for enhanced flow measurements and control		
10:30-11:15		Coffee Break, Refreshments			
11:15-12:00		Philipp Thoma, Planqc Gmbh, Germany	Wagdi Habashi, McGill University, Canada		
		Quantum and Quantum-Inspired Approaches to CFD	Reduced Order Modeling: A Virtual In-Flight Icing Aircraft Certification Methodology Unifying Computational-Experimental-Flight Fluid Mechanics		
12:00-12:45		Thomas Rung, TU Hamburg, Germany	Alexander Rack, ESRF, France		
		Strategies to Deploy Quantum Concepts for CFD - From VQA to TQP	Depicting Dynamic Processes with Real-Time Radioscopy using hard Synchrotron Radiation		
12:45-14:00		Lunch			
14:00-14:45		Matthias Moller, TU Delft, The Netherlands	Jeena Poonosamy, FJZ, Germany		
		Quantum lattice Boltzmann methods and lattice gas automata	AI-assisted lab-on-a-chip experiments: Setting new frontiers in radio-geochemistry		
14:45-15:30		Yue Yang, Peking University, China	Simo Makiharju, University of Berkeley, USA		
		Quantum computing and AI for turbulence simulation	Exploration of AI tools for Experimental Multiphase Flow Data Augmentation		
15:30-16:00		Coffee Break, Refreshments			
16:00-16:45		Felix Tennie, City St George University London, UK	Nikolaos Prsianakis, PSI, Switzerland		
		Quantum algorithms for integrating nonlinear dynamics using mean-field nonlinearities	Bridging Experiments and Simulations: AI-enhanced digital twins		
16:45-17:30		Dieter Jaksch, University of Hamburg, Germany			
		Quantum Computational Fluid Dynamics			
18:00-20:00		Welcome Reception and Registration, Refreshments, Finger food			

DAY 1, Tuesday 1st September 2026					
08:00-08:30		Registration and Coffee			
08:30-08:45		Welcome Address, Manolis Gavaises, City St George University, UK			
Keynote 08:45-09:30	Chair: Miguel-Alfonso Mendez	Steve Brunton, University of Washington, USA Machine Learning for Scientific Discovery, with Examples in Fluid Mechanics			
		Dr Runze Mao, Peking University, China Unified Benchmarking for Neural Surrogates of Realistic Multiphysics Flows			
		Coffee Break, Refreshments			
Parallel Sessions	4. Physics-informed models	5. Reinforcement learning, Dimensionality Reduction and Reduced Order Models	1. Machine Learning	10. Turbulence	8. PDE Solvers
Chair	Prof Christopher Bruecker, City St George's University London, UK	Prof Steven Brunton, University of Washington, USA	Prof Miguel-Alfonso Mendez, von Karman Institute for Fluid Dynamics, Belgium	Prof Yue Yang, Peking University, China	Dr Runze Mao, Peking University, China
ROOM	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
11:00 - 11:15	S.4-P.1 Jiahao Song Jiahao Song, Wenbo Cao, Weiwei Zhang FENN: Feature-enhanced neural network for solving partial differential equations involving fluid mechanics Northwestern Polytechnical University, China	S.5-P.1 Kirsten Odendaal Kirsten Odendaal, George Drakoulas ShipNet: A Geometric Deep Learning Surrogate for Real-Time Ship Hydrodynamics Maritime Research Institute Netherlands (MARIN)	S.1-A.1 Jiacheng Sheng Jiacheng Sheng, Jian Liu A Neural Network-Based Method for Bird Strike Risk Assessment of an Aircraft Wing School of Aeronautics, Northwestern Polytechnical University, China	S.10-A.1 Paul Creusy Paul Creusy, Benoît-Joseph Gréa, Antoine Briard, Téo Granger Leveraging Machine Learning to discriminate parametric and structural errors in RANS models for Rayleigh-Taylor transition CEA, DAM, DIF, F-91297 Arpajon, France	S.8-P.1 Aleksandar Jemcov Aleksandar Jemcov, Scott C. Morris Conditional Givens Networks for Scalable Unitary Liouville Transport University of Notre Dame, USA
11:15 - 11:30	S.4-P.2 Michael Mommert Michael Mommert, Marie-Christine Vio, Christian Bauer Benchmarking PINN architectures for temperature-reconstruction by determining viscosity deviations German Aerospace Center (DLR), Germany	S.5-A.2 Kai Fukami Kai Fukami, Yuta Iwatani, Soji Maekawa, Hiroyuki Asada, Soshi Kawai Modeling and sensing transonic airfoil buffet flows at high Reynolds numbers on a low-order submanifold Tohoku University, Japan	S.1-A.2 Mingkun Xia Weiwei Zhang, Mingkun Xia Symbolic Regression for Progressive Discovery of Physical Laws in Fluid Mechanics Northwestern Polytechnical University, China	S.10-P.2 Qidi Wu Qidi Wu, Jiaqing Kou, Shufang Song A Data-Driven Recommendation System for Turbulence-Model Selection School of Aeronautics, Northwestern Polytechnical University, Xi'an 710072, China	S.8-P.2 Senwei Zheng Jiaqing Kou, Senwei Zheng, Weiwei Zhang Physics-encoded resolution-generalizable neural network for truncation error correction of solving nonlinear PDEs School of Aeronautics, Northwestern Polytechnical University, China
11:30 - 11:45	S.4-A.3 Christian Bauer Robin Barta, Christian Bauer, Ghulamhossein Bagheri Robust estimation of pressure and velocity gradients from one time step in turbulent pipe flows via two-stage physics-informed neural networks German Aerospace Center (DLR), Germany	S.5-A.3 Daiki Beppu Daiki Beppu, Vedasti Godavarthi, Koichiro Yawata, Hiroya Nakao, Kai Fukami Estimating phase-amplitude sensitivity fields of laminar airfoil wakes from sparse sensors with machine learning Department of Aerospace Engineering, Tohoku University, Japan	S.1-P.3 Partha Dutta Partha Dutta, Kiran Raj M. Deep Learning-Enhanced Background Oriented Schlieren for Droplet Evaporation Indian Institute of Technology, Madras, Tamil Nadu, 600036, India	S.10-A.3 Thorben Markmann Hans Harder, Thorben Markmann, Roshan J. Samuel, Jörg Schumacher, Barbara Hammer, Sebastian Peitz Generative Modeling of the Spherical Rayleigh-Bénard Convection Bielefeld University, Germany	S.8-P.3 Paul Horvath Paul Horvath, Marian Stagg, Stefan Posch Fourier Neural Operator for Journal Bearing Modelling CD Laboratory for Physics-driven Machine Learning in Industrial Applications, Graz, Austria
11:45 - 12:00	S.4-P.4 Zishan M. Mahmood Alireza Rouhi, Adrian Krämer, Carsten Mehning Data-Driven and Physics-Informed Graph Neural Networks for Flow Field Prediction in Two-Dimensional Channel Flows Featuring Bluff Body Obstacles Institute of Mechanical Process Engineering, University of Stuttgart, Germany	S.5-A.4 Francisco-Javier Granados-Ortiz F.-J. Granados-Ortiz, J. García-Mena, A. Pérez-Rodríguez, A. López-Martínez, J. Ortega-Casanova Data-driven Modal Decomposition of the Effect of Fins in Unsteady Channel Flow Dynamics University of Almería, Spain	S.1-A.4 Anja Bartelmei Anja Bartelmei, Stefan Sznitzinger, Jörg Schumacher Closed-loop prediction of thermal plume dynamics in Rayleigh-Bénard convection using delay-embedded optical reservoir computing Technische Universität München, Germany	S.10-A.4 Hesam Tofighian Hesam Tofighian, Jordan A. Denev, Nikolai Kornev Finite-Volume Convolution for Deep Super-Resolution Reconstruction of Turbulent Flow on Unstructured and Stretched Grids Scientific Computing Center, Karlsruhe Institute of Technology (KIT), Germany	S.8-P.4 Kosov Vladimir Influence of temperature on concentration convection caused by instability of the equilibrium of ternary gas mixtures based on data using CFD modeling improved with the help of artificial intelligence Abai Kazakh National Pedagogical University, Almaty, Kazakhstan
12:00 - 12:15	S.4-A.5 Jincheng Zhang Jincheng Zhang Physics-informed neural networks for RANS simulations with data-driven turbulence modelling University of Warwick, UK	S.5-A.5 Henning Schwarz Henning Schwarz, Pyei Phyo Lin, Jens-Peter M. Zemke, Thomas Rung NEURAL FIELD BASED SURROGATE MODEL FOR DITCHING LOAD PREDICTION Hamburg University of Technology, Germany	S.1-A.5 Ryan Santoso Ryan Santoso, Lara Wegner, Yuanlai Yang, Jenna Poonosamy Machine learning-based framework for predicting effective properties of 3D partially saturated porous materials Forschungszentrum Jülich GmbH, Germany	S.10-A.5 Maurizio Carbone M. Carbone, V. Valadão, T. L. M. Sbragaglia, L. Biferale, M. Buzzicotti Generating turbulence by learning inter-scale cascade dynamics Department of Physics and INFN, University of Rome "Tor Vergata", Rome, Italy	S.8-P.5 Xukun Wang Xukun Wang, Oscar A. Marino, Esteban Ferrer Accelerating high-order discontinuous Galerkin solver using auto-differentiation and neural networks Universidad Politécnica de Madrid, Spain
12:15 - 12:30	S.4-A.6 Wanshu Li Wanshu Li, Zhiyu Duan, Wenwen Zhao, Wefang Chen PGP-GNN: A Physics-Guided Prior Graph Neural Network for Efficient Prediction of Hypersonic Chemical Non-Equilibrium Aerodynamic Heating Zhejiang University, China	S.7-A.1 Yiqi Feng Yiqi Feng, Steffen Schmidt, Nikolaus A. Adams Reinforcement Learning for Airfoil Shape Optimization at a Target Lift Condition Technische Universität München, Germany	S.1-A.6 Monica Lacatus Monica Lacatus, Matthias Möller Surrogate Quantum Circuit Design for the Lattice Boltzmann Collision Operator Delft University of Technology (Delft Institute of Applied Mathematics), The Netherlands	S.3-P.1 Kherlen Jigidi Kherlen Jigidi, Affan Asif Siddiqui, Nguyen Anh Khoa Doan Adjoint-Based Training of Kolmogorov-Arnold Networks for Interpretable Turbulence Modelling Faculty of Aerospace Engineering, TU Delft, The Netherlands	S.8-A.6 Miranda J S Horne Miranda J S Horne, Peter K. Jaseck, Amirul Khan, He Wang Hard Constraint Projection in a Fourier Neural Operator University of Leeds, UK
12:30 - 12:45		S.13-P.11 Xuan-Qi Liu Xuan-Qi Liu, Kai-Qi Li, Zhen-Yu Yin Resilient groundwater flow modelling in heterogeneous porous media using mixed-form PINNs and transfer learning The Hong Kong Polytechnic University, Hong Kong, China	S.1-P.7 Ron Barron Vatsal Shah, Love Fadai, Ronald Barron, Mohammad Hassanzadeh Hard Boundary Condition Enforcement for Learning-Based Boundary Value Problem Solvers University of Windsor, Canada		S.8-A.13 Patrick Vaudrevange Patrick Vaudrevange, Tobias Roessler, Tina Verizalis, Michael Kerkelien AI-Accelerated Multi-Fidelity Fire Simulation and Hybrid Mesh Generation for Industrial CFD TWT, Germany
12:30-14:00	Lunch (Maich restaurant)				

Keynote 14:00-14:45	Chair: Bernd R. Noack, Shenzhen University, PR China	Jean-Jacques Slotine, MIT, USA			
		Stable Adaptation and Learning			
Keynote 14:45-15:30		Alessandro Parente, Université Libre de Bruxelles, Belgium			
		Digital twins as enablers of renewable synthetic fuels in hard-to-abate industries			
15:30-16:15	Sponsor Presentations				
16:15-17:00	Coffee Break, Refreshments				
Parallel Sessions	5. Dimensionality Reduction and Reduced Order Models	1. Machine Learning	10. Turbulence	13. Multi-phase	14. Turbomachinery and Airfoils
Chair	Prof Jiaqing Kou, Northwestern Polytechnical University, China	Prof Alessandro Parente, Université Libre de Bruxelles, Belgium	Prof Yue Yang, Peking University, China	Dr Steffen Schmidt, Technical University of Munich, Germany	Prof Nicolas R. Gauger, RPTU Kaiserslautern-Landau, Germany
ROOM	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
17:00 - 17:15	S.5-A.7 Marek Belda Marek Belda, Lorenzo Schena, Roman Poletti, Miguel Alfonso Mendez <i>A New Approach for Fast Multiscale POD Computation</i> Department of Fluid Dynamics and Thermodynamics, Faculty of Mechanical Engineering, Czech Technical University in Prague	S.1-P.8 Tobias Rentschler Tobias Rentschler, Alexander Tismer, Stefan Riedelbauch <i>Transformer-Based Quadrilateral Block-Structured Mesh Generation</i> University Stuttgart, Institute of Fluid Mechanics and Hydraulic Machinery (IHS), Germany	S.10-P.7 Alejandro Montoya Alejandro Montoya, Paola Cinnella <i>Archetype-based mixture of experts for interpretable and generalisable data-driven turbulence modelling</i> Institut Jean Le Rond d'Alembert, Sorbonne Université, France	S.13-P.1 Vinicius G. Poletto Marina Elizabeth Mazuroski, Thiago Machado Neubauer, Vinicius Gustavo Poletto, Fernando Cesar De Lai, Bruno Barbosa Castro, André Leibsohn Martins, Silvio Luiz de Mello Junqueira <i>CFD-DEM modeling of particle clustering and deposition combining growth and adhesion</i> Federal University of Technology – Paraná (UTFPR) & Petrópolis, Brazil	S.14-A.1 Charly Witmeur Witmeur Charly, Decuyper Jan, Schoukens Maarten, Runacres Mark <i>Optimal Input Design for Dynamic Stall Modelling of a Pitching Aerofoil Using Reinforcement Learning</i> Vrije Universiteit Brussel (VUB), Belgium
17:15 - 17:30	S.3-A.2 Farzad Mashayek P. Thoguluvu Rajendran, D.T. Larsson, L. Tronstad, B. Kinsey, S.A. Craig, F. Mashayek <i>Optimal Pressure Sensor Placement for Reward Computation in Reinforcement-Learning-Based Active Flow Control of Airfoils</i> University of Arizona, USA	S.1-A.9 Ioannis Kyritsopoulos Ioannis Kyritsopoulos, Michael Mays, Saleh Rezaeiavash, Alastair Revell <i>An Improved Data-driven RANS Modelling Approach for Separated Flows</i> The University of Manchester, UK	S.10-P.8 Simon Dalpke Moritz Link, Simon Dalpke, Ryo Koshikawa, Kai Fukami, Alexander Stroh <i>Autoencoder-Based Analysis of Roughness Effects on Heat-Momentum Dissimilarity</i> Institute of Fluid Mechanics, Karlsruhe Institute of Technology, Germany and Department of Aerospace Engineering, Tohoku University, Sendai, Japan	S.13-A.2 Hugo D. Bernardino Amaro Hugo D. Bernardino Amaro, Manuel A. Taborda, Berend van Wachem <i>Effect of hydrodynamic drag on uniformly coated spherical carrier particles</i> Otto-von-Guericke-Universität Magdeburg, Germany	S.14-P.2 Xinyue Lan Xinyue Lan, Sun Gang <i>Physics-Guided Operator Learning for Integrated Aerodynamic Optimization of Transonic Fan Blades</i> Department of Aeronautics & Astronautics, Fudan University, Shanghai 200433, China
17:30 - 17:45	S.1-A.10 Liu Jun Tianfang, Lijun, Yuanhuacheng <i>Rapid Prediction of Total Pressure Field at the Exit of a 3D S-Shaped Expansion Duct Using an Improved U-Net</i> Nanjing University of Aeronautics and Astronautics, China	S.1-P.11 Ni Shuzhi Shuzhi Ni, Zi-Xiang Tong, Yimin Zhang, Jianqin Zhu <i>Physics-Guided Graph Neural Networks for Joint Optimization of Sensor Placement and Sparse Flow Reconstruction</i> Beihang University, China	S.10-A.9 Mourad Oulghelou Mourad Oulghelou, Tadd Truscott, Sandip Laxman Dighe, Hannah Wilkosz <i>Surrogate-UCB Calibration of RANS Closure Using Sparse Reef Current-Meter Observations</i> King Abdullah University of Science and Technology, Saudi Arabia	S.13-A.3 Hani Elmeshtikawy Hani Elmeshtikawy, Akshay Chandran, Bruno Blais, Max Hausmann, Berend van Wachem <i>2nd International Symposium on AI and Fluid Mechanics Data-driven hydrodynamic force correlations for Euler-Lagrange simulations of particle-laden flows</i> Otto-von-Guericke University Magdeburg, Germany	S.14-A.3 Evgenia Kontoleontos <i>Data Driven Anomaly Detection Methods for Improving Plausibility Checks in Hydraulic Turbine Model Test Data</i> Andritz Hydro GmbH, Austria
17:45 - 18:00	S.7-P.2 Valerio Di Domenico V. Di Domenico, M. A. Mendez, L. Koloszar, Y.Bartosiewicz, M. Fiore <i>Development of Reduced Order Models for the Thermal Hydraulics of Nuclear Reactors</i> von Karman Institute for Fluid Dynamics, Belgium	S.1-P.12 Yimin Zhang Yimin Zhang, Zi-Xiang Tong, Shuzhi Ni, Jianqin Zhu <i>Explicit Embedding of Flow Directionality and Advection Operators in Neural Architectures for High-Fidelity Fluid Dynamics Prediction</i> Beihang University, China	S.10-P.10 Kyriakos Giannakoglou C. Tsolakis, A.A. Petrochelios, K. Batsi, V.G. Asouli, K.C. Giannakoglou <i>Data Driven Turbulence Modelling through Eddy Viscosity Adaptation and Symbolic Regression</i> National Technical University of Athens, Greece	S.4-P.17 Paolo Guida Paolo Guida <i>Real-time control of multiphase processes with learned operators</i> King Abdullah University of Science and Technology, Saudi Arabia	S.14-A.4 Gonçalo Granjal Cruz Gonçalo Granjal Cruz, Mark Runacres, Jan Decuyper <i>Modelling NACA 0018 Unsteady Aerodynamics using State-Space Kolmogorov-Arnold Networks</i> Vrije Universiteit Brussel, Belgium
End of Day 1					

DAY 2					
08:00-08:45	Coffee and Refreshments				
Keynote 08:45-09:30	Chair: Oliver Schmidt, UC San Diego, USA	Bernd R. Noack, Shenzhen University, China			
		Aerodynamic technologies and machine learning for the aerial society –Making drones and air taxis energy efficient and gust-safe			
Keynote 09:30-10:15		Jiaqing Kou, Northwestern Polytechnical University, China			
		Explainable Generative Machine Learning for Aircraft Aerodynamic Configuration Design			
10:15-11:00	Coffee Break, Refreshments				
Parallel Sessions	4. Physics-informed models	5. Reinforcement learning, Dimensionality Reduction and Reduced Order Models	11. Industrial & Applied ML in Fluid Systems	13. Multi-phase	6. Combustion, Flames, Sprays
Chair	Dr Jenna Poonosamy, Forschungszentrum Jülich, Germany	Prof George Papadakis, Imperial College London, UK	Prof Min Xu, Shanghai Jiao Tong University, China	Prof David Hung, Shanghai Jiao Tong University, China	Prof Arne Scholtissek, Technical University of Darmstadt, Germany
ROOM	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
11:00 - 11:15	S.4-A.7 Simon Wassing Simon Wassing, Tobias Leicht, Philipp Bekemeyer <i>CFD-informed Neural Networks (CINNs) – Integrating an industrial-grade CFD solver into Physics-Informed Neural Networks</i> German Aerospace Center (DLR), Germany	S.5-A.8 Oliver Schmidt Oliver Schmidt, Aaron Towne <i>The AIAA Data-Driven Modeling of Fluid Flows Community Challenge</i> UC San Diego, USA	S.11-P.1 Ron Barron Love Fadai, Vatsal Shah, Ronald Barron, Mohammad Hassanizadeh <i>Improving PINN Stability for Convection-Dominated Boundary Value Problems via Artificial Damping Regularization</i> University of Windsor, Canada	S.13-A.4 Hendrik Hessenkemper Hendrik Hessenkemper, Guangyuan Huang, Lantian Wang, Tian Ma <i>Deep Learning Models for 3D Lagrangian tracking in disperse 3-phase flows</i> Helmholtz-Center Dresden-Rossendorf, Germany	S.6-P.1 Baptiste Romain Baptiste Romain, Adrien Langenais, Joël Dupays, Laurent Cabore <i>Chemistry reduction and acceleration based on neural network surrogate</i> ONERA, France
11:15 - 11:30	S.4-P.8 Ian Hubbard Ian Hubbard, Evert-Jan Foeth <i>Fidelity-Scaling via Physics-Informed Graph Learning on Marine Propeller Blades</i> Wartsila Propulsion Netherlands	S.5-A.10 Miguel Pérez Cuadrado Miguel Pérez Cuadrado, Gorgio Maria Cavallazzi, Alfredo Pinelli <i>Latent-Space SINDy-Discovered ODEs for Reconstructed Turbulent Dynamics with Causal Analysis of Attractor Transitions</i> City St Georges, University of London, UK	S.11-A.2 Jialei Yan Jialei Yan, Ruizong Wu, Chengu Lu <i>Deep learning for the dynamic characteristics and stability of floating structures under complex marine environments</i> Harbin Institute of Technology, China	S.13-A.5 Jiayang Xu Jiayang Xu, Josef Winter, Steffen Schmidt, Nikolaus A. Adams <i>Multi-Fidelity Heteroscedastic Gaussian Processes for Cavitation Wall Load Prediction</i> Chair of Aerodynamics and Fluid Mechanics, Technical University of Munich, Germany	S.6-A.2 Cédric Mehl C. Mehl <i>Acceleration of chemical kinetics integration in combustion CFD using artificial neural networks</i> IFPEN, France
11:30 - 11:45	S.4-A.9 Gulliver Van Essche Gulliver Van Essche, Gonçalo Granjal Cruz, Tim De Troyer, Mark Runacres, Jan Decuyper <i>Physics-informed learning of unsteady fluid systems via dynamical invariants</i> VUB, Belgium	S.5-P.11 Gianluigi Rozza Gianluigi Rozza <i>Accelerating Numerical Simulation in CFD by Reduced Order Surrogate Modelling and Scientific Machine Learning</i> SISSA Trieste, Italy	S.11-A.3 Xiao Xue Xiao Xue, Tianyue Yang, Mingyang Gao, Maida Wang, Kewei Zhu, Peter V. Coveney <i>Uni-Flow: A Unified Autoregressive-Diffusion Framework for Stable Long-Horizon and High-Resolution Multiscale Flow Modeling</i> University College London, UK	S.13-P.6 Connor Nolan Connor Nolan, Lee Mortimer, Peter Jimack, Michael Fairweather <i>Machine Learning-Based Prediction of Non-Spherical Particle Agglomeration</i> University of Leeds, UK	S.6-A.3 Hongchao Chu Hongchao Chu, Haogeng Bai, Mingren Gao, Alberto Procacci, Shibam Bose, Hesheng Bao, Alessandro Parente, Heinz Pitsch <i>Uncertainty-guided active Co-Kriging for cost-efficient determination of hot-spot surface ignition of hydrogen–air mixtures</i> Institute for Combustion Technology, RWTH Aachen University, Germany
11:45 - 12:00	S.4-P.10 Amelie Lam Amelie Lam, Holoïse Méhéut, André Ferrari, Sara El Bouch <i>Solver-In-The-Loop Training with Multistep Inputs for Capturing Fine-Scale Turbulence</i> Laboratoire Lagrange, France	S.5-A.12 João Victor Neves Neiva João V. N. Neiva, Luc Pastur, Igor B. de Paula, Omar E. H. Pinedo <i>Experimentally-based least-order model of the transient growth of a laminar separation bubble</i> ENSTA-Paris, France	S.11-P.4 Jing Li Jing Li, Changlong Luo <i>Sparse Rational Learning for Aerodynamic Prediction</i> Institute of Mechanics, Chinese Academy of Sciences, China	S.13-P.7 Zikai Zhang Zikai Zhang, David L. S. Hung <i>Full-Field Reconstruction of Droplet Impact via Multi-Fidelity Physics-Informed Neural Networks</i> Shanghai Jiao Tong University, China	S.6-A.10 Xiaowei Jin Xiaowei Jin, Shanglai Xu, Hui Li <i>Operator learning method with adaptive activation function for high-speed shock tube problems and airfoil flows</i> Harbin Institute of Technology, China
12:00 - 12:15	S.4-A.11 Matthias Möller Matthias Möller <i>IGANets: Blending isogeometric analysis with operator learning</i> Delft University of Technology, The Netherlands	S.5-A.13 Haitao Lin Haitao Lin, Xu Yang, Weiwei Zhang <i>Transferable Scaling Function Learning Method for Cross Shape Aerodynamic Database Construction</i> Northwestern Polytechnical University, China	S.14-A.5 Donghyuk Kang Donghyuk Kang <i>Data-Driven Sparse Reconstruction of Three-Dimensional Steady and Unsteady Flow Fields in a Centrifugal Impeller under Nominal and Disturbed Operating Conditions</i> Department of Mechanical Engineering, Saitama University, Japan	S.13-A.8 Bruno Delhom Bruno Delhom, Chaouki Habchi, Olivier Colin, Julien Bobbot <i>Development of a multi-species real fluid modeling approach using an innovative machine learning method, application to MASCOT</i> IPFen, France	S.6-A.5 Nicolas Eckel N. Eckel, T.J.P. Karpowicz, D. Mira, F. Ferraro, C. Hesse, A. Scholtissek <i>ANN-based Chemistry Surrogate Modeling for Premixed Hydrogen Flames</i> Technical University Darmstadt, Simulation of reactive Thermo-Fluid Systems, Germany

12:15 - 12:30	S.4-P.12 Roberto Dal Monte Roberto Dal Monte, Michele Cogo, Francesco Picano Probabilistic Near-Wall Turbulence Modeling via Physics-Guided Diffusion Model Università degli Studi di Padova, Italy	S.5-A.20 George Papadakis G. Papadakis, S. Lu Learning from the past to predict the future: a general, data-driven and physically interpretable algorithm, applied to turbulent flow forecasting Dept. of Aeronautics, Imperial College London, UK	S.14-A.6 Mohammadmahdi Nouri Manolis Gavaises, Gabor Janiga End-to-End Trainable Hybrid Model for PT-Phase-Split Neural -Value Correction with an Implicit Rachford-Rice Layer Otto-von-Guericke-University Magdeburg, Germany	S.13-A.9 Roque Martins Duarte Junior Roque Martins Duarte Junior; Vinicius Gustavo Poletto, Cesar Oliveira Ribeiro Negreão, Modeling and simulation of hydrogen bubble transport in alkaline electrolyser Research Center for Rheology and Non-Newtonian Fluids, Federal University of Technology, Brazil	S.6-A.6 Cyril Freyling Freyling Cyril, Coussement Axel Symbolic Regression-Based Prediction of Mass Fraction Burned in Hydrogen-Fueled Internal Combustion Engines Université Libre de Bruxelles, Belgium
12:30 - 12:45	S.1-P.13 Michael Vipin Bharath Ravikumar, Ioannis Karathanasis, Mehdi Seddiq, Manolis Gavaises. Learning viscoelastic constitutive models from mesoscopic simulations using scientific machine learning City St George's University London, UK				
12:30-14:00	Lunch (Maich restaurant)				
Keynote 14:00-14:45	Chair: Steffen Schmidt, TUM, Germany	Nils Thuerey, TU Munich, Germany			
		AI techniques for differentiable and non-differentiable solvers			
Keynote 14:45-15:30		Adrian Lozano Duran, MIT, California Institute of Technology, USA			
		General-Purpose ML-Based Closure Models for Computational Fluid Dynamics			
15:30-16:15	Coffee Break and Refreshments				
Parallel Sessions	4. Physics-informed models	5. Dimensionality Reduction and Reduced Order Models	1. Machine Learning	3. Optimisation and Design	14. Turbomachinery and Airfoils
Chair	Dr Nikolaos Prasianakis, Paul Scherrer Institute, Switzerland	Prof Nils Thuerey, Technical University of Munich, Germany	Prof Miguel-Alfonso Mendez, von Karman Institute for Fluid Dynamics, Belgium	Prof Kyriakos Giannakoglou, National Technical University of Athens, Greece	Prof Weiwei Zhang, Northwestern Polytechnical University, China
ROOM	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
16:15 - 16:30	S.4-P.13 Yuling Han Yuling Han, Zhihui Li, Zhibin Yu Physics-informed latent neural operator for three-dimensional compressor cascade flow prediction University of Liverpool, UK	S.5-A.15 Antonio Colanera Antonio Colanera, Luca Magri Fuzzy quantized local reduced models for chaotic flows. SISSA mathLab, Italy	S.1-A.14 Wilfried Genest / Savin Eric Wilfried Genest, Eric Savin, Filippo Gatti, Didier Cloubeau Predictive modeling of incompressible fluid flows using conditional score-based diffusion models ONERA and CentraleSupélec, France	S.3-A.3 Francesco Di Fiore Francesco Di Fiore, Hayriye Pehlivan Solak, Andrea Serani, Matteo Diaz, Laura Mainini Active Learning for Fluid Dynamics Driven Design Imperial College London, UK	S.14-P.7 Alessandro Pela (Michele Marconcini) Alessandro Pela, Michele Marconcini, Andrea Arnone IRMA: Impeller Representation Model for Aerodynamics University of Florence, Italy
16:30 - 16:45	S.4-A.14 Qiang Liu (Giacomo Baldan) Giacomo Baldan, Qiang Liu, Nils Thuerey Pareto-Optimal Generative Modeling with Physical Constraints via Physics-Based Flow Matching Technical University of Munich, Germany	S.5-A.16 Alec Linot Alec J. Linot, Eli Rummner Data-driven Manifold Charting using Persistent Homology for Chaotic Dynamics University of Massachusetts Amherst, USA	S.1-P.15 Chris R. Jung Chris R. Jung, Markus Dörr, Adam T. Müller, Natalie Jüngling, Jennifer Niesner, Nicolaj C. Stache Generative Indoor Flow Prediction: Drifting Models for Surrogate Flow Modeling Heilbronn University of Applied Sciences, Germany	S.3-A.4 Izuru Kambayashi Izuru Kambayashi, Masaki Ihara, Szu Yung Chen, Byungjin An LBM-based Deep Learning Surrogate Modeling for Shape Optimization of Fans Ebara Corporation, Japan	S.14-A.8 Szu Yung Chen Szu Yung Chen, Izuru Kambayashi, Ning Yang, Motohiko Nohmi, Ryota Yoshitaka Data-Driven Analysis of Cavitation Erosion Geometry Ebara Corporation, Japan
16:45 - 17:00	S.4-A.15 Tamara Gammaldoni Tamara Gammaldoni, Jacopo Zerbini, Michele Battistoni Physics-Informed ML for CFD Applications: Forward Modeling of Microchannel Heat Transfer and Inverse Identification in Hydrogen Injection University of Perugia, Italy	S.5-A.18 Lucas Schneeberger Lucas Schneeberger, Guy Y. Cornejo Maceda, Zhiyuan Wang, Jacopo Trierli, Stefano Discetti, Andrea Ianni Manifold learning of pitching airfoil dynamics from pressure measurements Universidad Carlos III de Madrid, Spain	S.1-A.16 Dev Hathi Dev S. Hathi, Josef M. Winter, Steffen J. Schmidt, Nikolaus A. Adams Learning Lattice Boltzmann collision operator using Graph Neural Networks Technical University of Munich, Germany	S.11-A.6 Louis Fliessbach Louis Fliessbach, Marian Fuchs, Hendrik Hetmann, Charles Moschetti, Niklasrtha Sahoo An automated CFD workflow for the generation of high-fidelity AI training data Upstream CFD GmbH, Germany	S.14-P.9 Florian Sobieczky AI Driven Prediction of Pressure Loss assisting Draft Tube Design in Hydraulic Turbines Andritz Hydro GmbH, Austria
17:00 - 17:15			S.1-A.17 Bharath Ravikumar Bharath Ravikumar, Ioannis K. Karathanasis, Manolis Gavaises, Timothy Smith, Gareth Brown Scope of machine learning in the development of many-body dissipative particle dynamics simulations of complex fluids City St Georges, University of London, UK	S.3-A.5 Long Ma Long Ma, Xiaojing Wu, Weiwei Zhang A Consistency-Identifiable Conditional Variational Autoencoder for Reliable Generative Shape Design School of Aeronautics, Northwestern Polytechnical University, China	S.14-A.10 Xiaojing Wu Xiaojing Wu, Zijun Zuo, Weiwei Zhang Multi-fidelity Aerodynamic Transfer Modeling Considering Heterogeneous Shapes Based on Point Cloud Variational Autoencoder for Efficient Propeller Shape Design Institute of AI for Industries, Chinese Academy of Sciences, China
			End of Day 2		

DAY 3					
08:00-08:45	Coffee break and Refreshments				
Keynote 08:45-09:30	Chair: Prof Manolis Gavaises, City St George's University London, UK	Min Xu, Shanghai Jiao Tong University, China			
		3D reconstruction of combustion flame temporal development			
09:30-10:30	Round Table: Q&A with Industry Panel				
10:30-11:00	Coffee Break, Refreshments				
Parallel Sessions	3. Optimisation and Design	9. Inference, Sensing, Inverse Modelling	12. Experimental Data	15. Heat Transfer	8. PDE Solvers
Chair	Prof Kyriakos Giannakoglou, National Technical University of Athens, Greece	Prof Bernd R. Noack, Shenzhen University, China	Prof Simo Makiharju, University of California Berkeley, USA	Dr Michael Vipin, City St George's University London, UK	Prof Jean-Jacques Slotine, MIT, USA
ROOM	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
11:00 - 11:15	S.3-P.6 Vladimir Krasnikov Vladimir Krasnikov, Benedetto Di Paolo, Emiliano Costa AI-driven optimization of hull-propeller systems using CFD and propeller design codes SINTEF Ocean AS, Department of Ships and Ocean Structures, Norway	S.9-A.1 Sebastian Sachs Sebastian Sachs, Steffen Jung, Margret Keuper, Christian Cierpka Artificial neural networks for event-based particle tracking using STELLA Technische Universität München, Germany	S.12-A.1 Yuan Jia Yuan Jia, Qiao Zhang, Hao Ma, Guojin Zhao, Chi Zhang, Chit-Yung Wen Reconciling Numerical Simulations with Wind-Tunnel Experiments in Hypersonic Flows The Hong Kong Polytechnic University, Hong Kong, China	S.15-P.1 Giovanni Ricciardi Giovanni Ricciardi, Wilfried Edelbauer, Manolis Gavaises, Berend van Wachem Integrating Machine Learning in CFD Wall Heat Transfer Models of Impinging Jet Flows with Variable Reynolds and Prandtl Numbers AVL List GmbH, Austria	S.8-A.7 Leonardo Boledi L. Boledi, R. Santoso, J. Poonosamy Accelerating Reactive Transport Simulations with KAN-based Surrogate Models Forschungszentrum Jülich GmbH, Germany
11:15 - 11:30	S.3-A.7 Tianhan Zhang Kang Hu, Jiangyang Ge, Haolan Jiang, Tianhan Zhang Autonomous Aerodynamic Design and Stability Optimization of UAVs via a Skill-Based Multi-Agent LLM Framework Beihang University, China	S.9-A.2 Mahdi Jamshidiha M. Jamshidiha, A. Proccaci, R. Amaduzzi, A. Parente, A. Coussement Bayesian Calibration of Turbulence-Chemistry for OH* Prediction in Hydrogen Combustion Université Libre de Bruxelles, Belgium	S.12-P.2 Qinye Zhu; Yu Xiang; Jun Zhang; Wenrong Wang Qinye Zhu, Yu Xiang, Jun Zhang, Wenrong Wang LGFNet: Local-Global Fusion Network for Multi-Source Aerodynamics School of Computer Science and Engineering, University of Electronic Science and Technology of China, Chengdu, China	S.15-P.2 Rémy Souan Rémy Souan, Adèle Proubeau, Thibault Fanney, Lionel Mathelin, Anne Sargent, Christian Angewallner A Machine Learning wall function for heat transfer prediction in laminar flows at high Prandtl number IFP Energies nouvelles, 1-4 Av. du Bois Préau, 92852 Ruef-Malmaison, France	S.8-P.8 Francis Padilla Ehsan Roohi, Francis Padilla Accelerating Kinetic Fokker-Planck simulations using a GPU-optimized deep neural network surrogate: Application to rarefied internal and hypersonic external flows UMASS Amherst, USA
11:30 - 11:45	S.3-P.8 Youzheng Yu Youzheng Yu, Jiaqing Kou, Weiwei Zhang Generative Framework for Aerodynamic Configuration Conceptual Design Northwestern Polytechnical University, China	S.9-P.4 Alexander Stroh Jakob Marcel Hoffmann, Yosuke Hasegawa, Alexander Stroh Predicting 4D Mitral Regurgitation Hemodynamics from Sparse Data using Hybrid Deep Operator Networks Institute of Fluid Mechanics, Karlsruhe Institute of Technology, Germany	S.12-A.3 Semanur Kucuk Semanur Kucuk, Cosimo Della Santina, Angeliki Laskari Automated Image-Based Classification of Air Lubrication Flow Regimes Using Deep Learning Delft University of Technology, The Netherlands	S.15-A.3 Oliver Scorsim Oliver Scorsim, Jean-Luc Boreau CFD-based Reduced Order Model for Steel Cooling Application ArcelorMittal Maizières R&D, France	S.8-P.9 Ruihan Zhang Ruihan Zhang, Jingru Xing, Shoubao Dai, Yuanqi Wu, Shangwen Gao, Junliu Luo, Yuxin Wu Super-Resolution Predictive Initialization Using Neural Operators for Accelerating CFD Simulations Tsinghua University, China

11:45 - 12:00	S.3-P.9 Alfredo Lopez A. Lopez, F. Sobiechzy, C. Lackner, M. Hochsteger, B. Scheichl, H. Sobiechzy, C. Feichtinger <i>A physics informed reinforcement learning framework for efficient airflow diffuser design</i> Software Competence Center Hagenberg, Austria	S.9-P.5 John Agyapong Boamah John A. Boamah, Ronald M. Barron, Ram Balachandhar <i>Reconstruction of Missing Velocity Fields Using Linear Modal Decomposition and Non-linear Deep Learning Approaches</i> University of Windsor, Canada	S.12-P.4 Zhiyu Duan Wenwen Zhao, Zhiyu Duan, Wanhua Li <i>Multi-Fidelity Data Fusion Method for the Aerodynamic Distribution of Flight Vehicles</i> Zhejiang University, China	S.15-P.4 Matthew Hughes Matthew T. Hughes, Christos Markides, Matteo Bucci <i>Reconstructing Boiling Heat Transfer and Inferring Near-Wall Hydrodynamics from High-Resolution Optical Diagnostics and Optical Flow of Nucleate Boiling</i> University of Michigan, USA	S.8-A.10 Xiaowei Jin Xiaowei Jin, Shengkai Xu, Hui Li <i>Operator learning method with adaptive activation function for high-speed shock tube problems and airflow flows</i> Harbin Institute of Technology, China
12:00 - 12:15	S.3-P.10 Larissa Jeindl Larissa Jeindl, Marian Staggi, Stefan Posch <i>Optimization with Differentiable Flow Solvers: A Comparative Study of Bayesian and Gradient-Based Methods</i> CD Laboratory for Physics-driven Machine Learning in Industrial Applications, Graz, Austria	S.9-A.6 Karol Bukowski Tommaso De Maria, Samuel Ahizi, Miguel Alfonso Mendez <i>Data-driven modelling and state estimation of sloshing dynamics from sparse measurements: an experimental and numerical study</i> von Karman Institute for Fluid Dynamics, Belgium	S.12-A.5 Philipp Godbersen Philipp Godbersen, Daniel Schanz; Andreas Schröder <i>PeakCNN for particle image localization: Examples, variations, and improvements</i> DLR, Germany	S.15-A.5 Jetrnis Avdijaj Pratibha Biswal, Jetrnis Avdijaj, Alessandro Parente, Axel Coussment <i>Physics-Informed Reduced-Order Modeling for Temperature Prediction in Industrial Reheating Furnaces</i> Université libre de Bruxelles, Belgium	S.8-A.11 Mohammad Sheikholeslami Mohammad Sheikholeslami, Saeed Salehi, Wengang Mao, Håkan Nilsson, Arash Eslamdoost <i>From Discretization to Neural Solvers: A Spectrum of Methods for the Lid-Driven Cavity Problem</i> Chalmers University of Technology, Sweden
12:15 - 12:30	S.8-PO.12 Albert Pool Michael Schelling, Birger Horstman <i>Optimisation strategies for variational quantum simulation of a battery cell model</i> German Aerospace Center (DLR), Germany	S.9-A.7 Jiawei Wu Jiawei Wu, Wang Han, Lijun Yan <i>Geometry-Generalizable Flow Reconstruction via Implicit Neural Representations</i> School of Astronautics, Beihang University, China	S.12-A.1 Ruicong Wu Ruicong Wu, Jiabin Liu, Jialei Yan, Anxin Gu <i>Considering the growth and flow field characteristics of wind-driven waves in current environments</i> Harbin Institute of Technology, China	S.11-A.7 Clemens Naumann Clemens Naumann, Christian Cienpla <i>Exergy loss prediction in stratified thermal energy storage systems using ANNs</i> Technische Universität Ilmenau, Germany	S.8-A.14 Kie Okabayashi Kie Okabayashi, Yuina Motozono, Kazuyuki Tanaka <i>Time-stepping Model of Cavitation Flow around a Clark-Y11.7% Hydrofoil Trained by CFD Data</i> The University of Osaka, Japan
12:30-14:00	Lunch (Maich restaurant)				
Keynote 14:00-14:45	Chair: Prof Wagdi Habashi	Charbel Farhat, Stanford University, USA			
		Physics-Based AI for Digital Twins of Fluid Flows			
Keynote 14:45-15:30		Vladimir Vanovski, Skolkovo Institute of Science and Technology, Russia			
		Hybrid Modelling and Computational Graph Coarsening for Accelerated Fluid Simulation			
15:30-16:15		David Hung, Shanghai Jiao Tong University, China			
16:15-17:00		Bridging Experiments and Simulations in the Analysis of In-cylinder Air Flow Fields using Machine Learning Techniques			
		Coffee break and Refreshments			
Parallel Sessions	10. Turbulence	4. Physics-informed models	7. Reinforcement Learning and Flow Control	2. Digital Twins	11. Industrial & Applied ML in Fluid Systems
Chair	Prof Andreas Schröder, DLR (German Aerospace Center), Germany	Prof Chaouki Habchi, IFP Energies nouvelles (IFPEN), France	Prof Charbel Farhat, Stanford University, USA	Prof Michele Battistoni, University of Perugia, Italy	Prof Wagdi Habashi, McGill University, Canada
ROOM	ROOM A	ROOM B	ROOM C	ROOM D	ROOM E
17:00 - 17:15	S.10-A.11 Chiara Calascibetta Tianyi Li, Michele Buzzicotti, Fabio Bonaccorso and Luca Biferale <i>Generative Diffusion Models for Turbulent Passive Scalar Fields</i> Centre Inria d'Université Côte d'Azur, France	S.4-A.18 Hyungmin Shin Hyungmin Shin, Andreas Schröder <i>A Two-Stage Physics-Informed Neural Network for Temperature Reconstruction from Lagrangian Particle Tracking Data</i> DLR, Germany	S.7-A.4 Isabel Scherl Isabel Scherl, James Berzaw, Alec J. Linot <i>Towards Developing Reduced-Order Models for Active Flow Control from Experimental Data</i> University of Massachusetts Amherst, USA	S.2-A.1 Sajad SalavatiDezfooli Sajad SalavatiDezfooli, Christoffer Hansen, Henrik Karstoft, Alexandros Iosifidis, Mahdi Abkar <i>Data-driven generative digital twins for wind-farm flows from highly sparse measurements</i> Aarhus University, Department of Mechanical and Production Engineering, Denmark	S.11-A.8 Mirza Popovac M. Popovac, T. Bäuml, D. Šimić <i>Numerical Strategies for Improving the Accuracy of ANN-Based Surrogate Model for Airflow Predictions within Rectangular Wall-Bounded Enclosures</i> AIT - Austrian Institute of Technology
17:15 - 17:30	S.5-A.19 Letian Jiang Letian Jiang, Steffen J. Schmidt, Nikolaus A. Adams <i>Physics-guided Temporal Classification of Unsteady Cavitation Stages Using Supervised Learning</i> TUM School of Engineering and Design, Technical University of Munich, Germany	S.2-A.2 Sebastiano Randino Sebastiano Randino, Lorenzo Schena, Emanuele Garone, Miguel Alfonso Mendez <i>A Self-Calibrating Digital Twin for Rotor-Effective Wind-Speed Estimation and Aerodynamic-Map Identification</i> von Karman Institute for Fluid Dynamics, Belgium	S.7-P.5 Priyam Chakraborty Priyam Chakraborty, Prishath Kumar Mishra, Suman Chakraborty <i>Learning to Swim Upstream: Koopman-Physics AI for Smart Microswimmer Navigation</i> Assistant Professor, Indian Institute of Technology Kharagpur, India	S.2-A.3 Yves-Marie Lefebvre (Philipp Bekemeyer) Alexander Barklage, Philipp Bekemeyer, Yves-Marie Lefebvre, John Goetz <i>Bridging the Gap between Numerical and Experimental Analysis through Machine Learning Techniques Employed in Real-Time</i> German Aerospace Center, Germany	S.11-A.9 Justo Matheus Justo Matheus, Francisco-Javier Granados-Ortiz <i>Identifying Arrhythmic Conditions Through Shock Signatures in Rotary Steerable Drilling Systems</i> SLB, Norway and University of Almeria, Spain
17:30 - 17:45	S.5-P.7 Yanfei Li <i>Simulation of multi-component flash boiling sprays with data-driven vapor liquid equilibrium calculations</i> Tsinghua University, China	S.4-P.19 Faras Brumand-Poor Faras Brumand-Poor, Georg Michael Puntigam, Marius Holmeister, Tim Kotte, Katharina Schmitz <i>Physics-Informed Neural Networks for Thermohydrodynamic Modeling of Fuel Injection Pumps with Fuel-Dependent Properties</i> RWTH Aachen University, Institute for Fluid Power Drives and Systems (faps), Germany	S.7-A.6 Wenzhe Cao Wenzhe Cao, Huancheng Bai, Chao Xia, Qing Jia, Zhigang Yang <i>Deep Reinforcement Learning-Based Active Flow Control for Drag Reduction of a Square-Back Ahmed Body</i> College of Automotive and Energy Engineering, Tongji University, Shanghai, 201804, China	S.2-P.4 Vincent Seyfried Vincent Seyfried, Andreas Radler, Johannes Brandstetter, Thomas Lichtenegger <i>From Neural Surrogates to Neural Twins</i> Department of Particulate Flow Modeling / Johannes Kepler University Linz, Austria	S.11-A.10 Haoan Chen Haoan Chen, Hao Ma, Xiaojing Wu, Weiwei Zhang <i>Multi-Agent Collaborative CAE Industrial Software Platform for Fluid Mechanics</i> Northwestern Polytechnical University, China
17:45 - 18:00	S.13-P.10 Lee Mortimer Lee Mortimer, Michael Fairweather <i>Prediction of Turbophoretic Particle Transport in Wall-Bounded Turbulent Flows Using Long Short-Term Memory Neural Networks</i> University of Leeds, UK	S.4-A.20 Yunde Su Yunde Su, Zhenyu Zhang <i>SIM-PINN: Segregated, Iterative, and Multi-Stage Physics-Informed Neural Network for Incompressible Flow Simulations</i> Sichuan University, China	S.5-A.9 Haoyan Li Haoyan Li, Alberto Proccaci, Alessandro Parente, Eliott Lumet, Melanie C.Rochoux <i>Parametric Prediction of Turbulent Flows Using a Novel Condition-guided β-variational Auto-encoder</i> Université Libre de Bruxelles, Belgium	S.2-A.5 Yannick Lecomte Yannick Lecomte, Alessandro Grava, Emanuele Garone, Miguel A. Mendez <i>Bayesian Reinforcement Twinning: A Multi-Fidelity Framework for Reciprocal Learning Between Digital Twins and Control</i> von Karman Institute for Fluid Dynamics, Belgium	S.11-A.11 Armand de Villeroché Armand de Villeroché, Rem-Sophia Mouradi <i>Anchored-Branching Steady-state Wind Flow Transformer (AB-SWIFT): a metamodel for 3D atmospheric flow in urban environments</i> CEREA, ENPC, EDF R&D, Institut Polytechnique de Paris, Ile-de-France, France
18:00 - 18:15		S.4-P.21 Stefan Posch Milos Babic, Franz Rohrhofer, Clemens Gößlitzner, Ricardo Novella, José María García-Oliver, Stefan Posch <i>Physics-informed Neural Networks and Differentiable Chemistry for Solving the Unsteady Flamelet Equation</i> Christian Doppler Laboratory for Physics-driven Machine Learning in Industrial Applications, Austria		S.7-A.7 Miguel Alfonso Mendez Miguel Alfonso Mendez, Lorenzo Schena, Romain Poletti <i>Reinforcement Twinning for Control of Transport-Dominated Systems with Partial Observations</i> von Karman Institute for Fluid Dynamics, Belgium	S.1-A.18 Jan Rottmayer Jan Rottmayer, Emre Özkaya, Long Chen, Nicolas R. Gauger <i>Bayesian Neural Network Surrogates for Aerodynamic Shape Design</i> RPTU Kaiserslautern-Landau, Germany
18:15-18:30	Closing Remarks, Manolis Gavaises				
18:30-23:00	Farewell drinks, Gala Dinner, Cretan night & Dance (Maich)				