

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 Makharju and Dr Nikolaos Prsianakis	
09:00-09:45		Michael Lubasch, Quantinuum Ltd, UK <i>Quantum circuits for partial differential equations in Fourier space</i>		Andreas Schröder, DLR and BTU Germany <i>3D Lagrangian Particle Tracking and data assimilation in fluid mechanics</i>	
09:45-10:30		Peter Brearley, University of Manchester, UK <i>Encoding general non-unitary operations on quantum computers with exponential accuracy</i>		Stefano Discetti, U Carlos III Madrid, Spain <i>Machine learning for enhanced flow measurements and control</i>	
10:30-11:15		Coffee Break, Refreshments			
11:15-12:00		Philipp Thoma, Planqc Gmbh, Germany <i>Quantum and Quantum-Inspired Approaches to CFD</i>		Wagdi Habashi, McGill University, Canada <i>Reduced Order Modeling: A Virtual In-flight Icing Aircraft Certification Methodology Unifying Computational-Experimental-Flight Fluid Mechanics</i>	
12:00-12:45		Thomas Rung, TU Hamburg, Germany <i>Strategies to Deploy Quantum Concepts for CFD - From VQA to TQP</i>		Alexander Rack, ESRF, France <i>Depicting Dynamic Processes with Real-Time Radioscopy using hard Synchrotron Radation</i>	
12:45-14:00		Lunch			
14:00-14:45		Matthias Moller, TU Delft, The Netherlands <i>Quantum lattice Boltzmann methods and lattice gas automata</i>		Jeena Poonosamy, F.J.Z, Germany <i>AI-assisted lab-on-a-chip experiments: Setting new frontiers in radio-geochemistry</i>	
14:45-15:30		Yue Yang, Peking University, China <i>Quantum computing and AI for turbulence simulation</i>		Simo Makharju, University of Berkeley, USA <i>Exploration of AI tools for Experimental Multiphase Flow Data Augmentation</i>	
15:30-16:00		Coffee Break, Refreshments			
16:00-16:45		Felix Tennie, City St George University London, UK <i>Quantum algorithms for integrating nonlinear dynamics using mean-field nonlinearities</i>		Nikolaos Prsianakis, PSI, Switzerland <i>Bridging Experiments and Simulations: AI-enhanced digital twins</i>	
16:45-17:30		Dieter Jaksch, University of Hamburg, Germany <i>Quantum Computational Fluid Dynamics</i>			
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, Jun 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 Volk, 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 Staggi, 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 Kockstein 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			
15:30-16:15	Digital twins as enablers of renewable synthetic fuels in hard-to-abate industries				
16:15-17:00	Sponsor Presentations				
	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, Romain 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 (IFS), 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 Rezaeiavesh, Alistair 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, I. 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. Tsolakos, A.A. Petrichelakos, 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 Fadla, 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.9 Haoyan Li Haoyan Li, Alberto Proccacci, Alessandro Parente, Elliott 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.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-A.10 Miguel Pérez Cuadrado Miguel Pérez Cuadrado, Giorgio 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.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 Proccacci, 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, Héléoise Méheut, 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-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-P.4 Jing Li Jing Li, Changtong 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.12 João Victor Neves Neiva João V. N. Neiva, Luc Pastor, 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-A.5 Xiao Xiao Xiao Xiao, Bruno Delhom, Chaouki Habchi, Julien Bobhot <i>Development of an ANN-ISAT Framework for Real-Fluid Modeling with Application to $\text{NH}_3\text{-H}_2$ injection system</i> IFPEN, France	S.13-A.8 Bruno Delhom Bruno Delhom, Chaouki Habchi, Olivier Colin, Julien Bobhot <i>Development of a multi-species real fluid modeling approach using an innovative machine learning method, application to MASCOT</i> IFPEN, France	S.6-A.5 Nicolas Eckel N. Eckel, T.J.P. Karpowski, D. Mira, F. Ferraro, C. Hasse, 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.13 Haitao Lin Haitao Lin, Xu Wang, Weiwei Zhang Transferable Scaling Function Learning Method for Cross Shape Aerodynamic Database Construction Northwestern Polytechnical University, China	S.14-A.5 Donghyuk Kang Donghyuk Kang Data-Driven Sparse Reconstruction of Three-Dimensional Steady and Unsteady Flow Fields in a Centrifugal Impeller under Nominal and Disturbed Operating Conditions Department of Mechanical Engineering, Saitama University, Japan	S.13-PO.9 Roque Martins Duarte Junior Blacodon Yohan, Yves le Guennec, Jose Aguado, Domenico Borzacchiello ML System based on transfer learning to assist design of cryogenic tank CERN, 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	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		
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.14-A.14 Wilfried Genuist / Savin Eric Wilfried Genuist, Eric Savin, Filippo Gatti, Didier Cloutreau 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, Haythya Pehlivan Solak, Andrea Serani, Matteo Diez, 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 Rummer 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 Niesener, Nicolas 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 Nozaki, Ryota Yoshikawa Data-Driven Analysis of Cavitation Erosion Geometry Ebara Corporation, Japan
16:45 - 17:00	S.4-A.15 Tamara Gammaidoni Tamara Gammaidoni, Jacopo Zerbi, 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 Schneberger Lucas Schneberger, Gay Y. Correia Maceda, Zhiyuan Wang, Jacopo Tirelli, 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 Helmann, Charles Mockett, Nikiathan 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, Ziyun 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	David Hung, Shanghai Jiao Tong University, China			
		Bridging Experiments and Simulations in the Analysis of In-cylinder Air Flow Fields using Machine Learning Techniques			
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, Guoqin Zhao, Chi Zhang, Chih-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. Santos, J. Poonoosamy 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, Haolian 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; Wenyong Wang Qinye Zhu, Yu Xiang, Jun Zhang, Wenyong 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 Proulx, Thibault Fannay, Lionel Mathelin, Anne Sergent, Christian Angelberger 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 Rueil-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, Cosmo 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 Mazzeres R&D, France	S.8-P.9 Ruihan Zhang Ruihan Zhang, Jingru Xing, Shoubao Dai, Yuanyi Wu, Shangwen Gao, Junfu Lyu, 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. Sobieczky, C. Lackner, M. Hochsteger, B. Scheichl, H. Sobieczky, C. Feichtinger A physics informed reinforcement learning framework for efficient airflow diffuser design Software Competence Center Hagenberg, Austria	S.9-P.5 John Agyapong Boamah John A. Boamah, Ronald M. Barron, Ram Balachandrar Reconstruction of Missing Velocity Fields Using Linear Modal Decomposition and Non-linear Deep Learning Approaches University of Windsor, Canada	S.12-P.4 Zhiyu Duan Wenwen Zhao, Zhiyu Duan, Wanshu Li Multi-Fidelity Data Fusion Method for the Aerodynamic Distribution of Flight Vehicles Zhejiang University, China	S.15-P.4 Matthew Hughes Matthew T. Hughes, Christos Markides, Matteo Bucci Reconstructing Boiling Heat Transfer and Inferring Near-Wall Hydrodynamics from High-Resolution Optical Diagnostics and Optical Flow of Nucleate Boiling University of Michigan, USA	S.8-A.10 Xiaowei Jin Xiaowei Jin, Shengxiu Xu, Hui Li Operator learning method with adaptive activation function for high-speed shock tube problems and airflow flows Harbin Institute of Technology, China

12:00 - 12:15	S.3-P.10 Larissa Jeindl Larissa Jeindl, Marian Staggi, Stefan Posch Optimization with Differentiable Flow Solvers: A Comparative Study of Bayesian and Gradient-Based Methods 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 Data-driven modeling and state estimation of sloshing dynamics from sparse measurements: an experimental and numerical study von Karman Institute for Fluid Dynamics, Belgium	S.12-A.5 Philipp Godbersen Philipp Godbersen, Daniel Schanz, Andreas Schröder PeakCNN for particle image localization: Examples, variations, and improvements DLR, Germany	S.15-A.5 Jetrnis Avdijaj Pratibha Biswal, Jetrnis Avdijaj, Alessandro Parente, Axel Couessement Physics-Informed Reduced-Order Modeling for Temperature Prediction in Industrial Reheating Furnaces Université libre de Bruxelles, Belgium	S.8-A.11 Mohammad Sheikholeslami Mohammad Sheikholeslami, Saeed Salehi, Wengang Mao, Håkan Nilsson, Arash Eslamdoost From Discretization to Neural Solvers: A Spectrum of Methods for the Lid-Driven Cavity Problem Chalmers University of Technology, Sweden
12:15 - 12:30	S.8-PO.12 Albert Pool Michael Schelling, Birger Horstman Optimisation strategies for variational quantum simulation of a battery cell model German Aerospace Center (DLR), Germany	S.9-A.7 Jiawei Wu Jiawei Wu, Wang Han, Lijun Yan Geometry-Generalizable Flow Reconstruction via Implicit Neural Representations School of Astronautics, Beihang University, China	S.12-A.1 Ruicong Wu Ruicong Wu, Jiabin Liu, Jialei Yan, Anxin Gu Considering the growth and flow field characteristics of wind-driven waves in current environments Harbin Institute of Technology, China	S.11-A.7 Clemens Naumann Clemens Naumann, Christian Cierpka Exergy loss prediction in stratified thermal energy storage systems using ANNs Technische Universität München, Germany	S.8-A.14 Kie Okabayashi Kie Okabayashi, Yuina Motazono, Kazuyuki Tanaka Time-stepping Model of Cavitation Flow around a Clark-Y11.7% Hydrofoil Trained by CFD Data 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 Vanovsky, Skolkovo Institute of Science and Technology, Russia Hybrid Modelling and Computational Graph Coarsening for Accelerated Fluid Simulation			
15:30-16:15		Min Xu, Shanghai Jiao Tong University, China 3D reconstruction of combustion flame temporal development			
16:15-17:00		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 Biffarati Generative Diffusion Models for Turbulent Passive Scalar Fields Centre Inria d'Université Côte d'Azur, France	S.4-A.18 Hyungmin Shin Hyungmin Shin, Andreas Schröder A Two-Stage Physics-Informed Neural Network for Temperature Reconstruction from Lagrangian Particle Tracking Data DLR, Germany	S.7-A.4 Isabel Scherl Isabel Scherl, James Bercaw, Alec J. Linot Towards Developing Reduced-Order Models for Active Flow Control from Experimental Data University of Massachusetts Amherst, USA	S.2-A.1 Sajad Salavatidezfouli Sajad Salavatidezfouli, Christoffer Hansen, Henrik Karstoft, Alexandros Iosifidis, Mahdi Abkar Data-driven generative digital twins for wind-farm flows from highly sparse measurements Aarhus University, Department of Mechanical and Production Engineering, Denmark	S.11-A.8 Mirza Popovac M. Popovac, T. Bäumli, D. Šimić Numerical Strategies for Improving the Accuracy of ANN-Based Surrogate Model for Airflow Predictions within Rectangular Wall-Bounded Enclosures AIT - Austrian Institute of Technology
17:15 - 17:30	S.5-A.19 Letian Jiang Letian Jiang, Steffen J. Schmidt, Nikolaus A. Adams Physics-guided Temporal Classification of Unsteady Cavitation Stages Using Supervised Learning 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 A Self-Calibrating Digital Twin for Rotor-Effective Wind-Speed Estimation and Aerodynamic-Map Identification von Karman Institute for Fluid Dynamics, Belgium	S.7-P.5 Priyam Chakraborty Priyam Chakraborty, Prabhath Kumar Mishra, Suman Chakraborty Learning to Swim Upstream: Koopman-Physics AI for Smart Microswimmer Navigation Assistant Professor, Indian Institute of Technology Kharagpur, India	S.2-A.3 Yves-Marie Lefebvre (Philipp Bekemeyer) Alexander Barltag, Philipp Bekemeyer, Yves-Marie Lefebvre, John Goetz Bridging the Gap between Numerical and Experimental Analysis through Machine Learning Techniques Employed in Real-Time German Aerospace Center, Germany	S.11-A.9 Justo Matheus Justo Matheus, Francisco-Javier Granados-Ortiz Identifying Arrhythmic Conditions Through Shock Signatures in Rotary Steerable Drilling Systems SLB, Norway and University of Almería, Spain
17:30 - 17:45	S.5-P.7 Yanfei Li Simulation of multi-component flash boiling sprays with data-driven vapor liquid equilibrium calculations Tsinghua University, China	S.4-P.19 Faras Brumand-Poor Faras Brumand-Poor, Georg Michael Puntigam, Marius Holmeister, Tim Kotte, Katharina Schmitz Physics-Informed Neural Networks for Thermohydrodynamic Modeling of Fuel Injection Pumps with Fuel-Dependent Properties RWTH Aachen University, Institute for Fluid Power Drives and Systems (faps), Germany	S.7-A.6 Wenzhe Cao Wenzhe Cao, Huanheng Bai, Chao Xia, Qing Jia, Zhigang Yang Deep Reinforcement Learning-Based Active Flow Control for Drag Reduction of a Square-Back Ahmed Body College of Automotive and Energy Engineering, Tongji University, Shanghai, 201804, China	S.2-P.4 Vincent Seyfried Vincent Seyfried, Andreas Rader, Johannes Brandstetter, Thomas Lichtenegger From Neural Surrogates to Neural Twins Department of Particulate Flow Modelling / Johannes Kepler University Linz, Austria	S.11-A.10 Haochen Chen Haochen Chen, Hao Ma, Xiaojing Wu, Weiwei Zhang Multi-Agent Collaborative CAE Industrial Software Platform for Fluid Mechanics Northwestern Polytechnical University, China
17:45 - 18:00	S.13-P.10 Leo Mortimer Leo Mortimer, Michael Fairweather Prediction of Turbophoretic Particle Transport in Wall-Bounded Turbulent Flows Using Long Short-Term Memory Neural Networks University of Leeds, UK	S.4-A.20 Yunde Su Yunde Su, Zhenyu Zhang SIM-PINN: Segregated, Iterative, and Multi-Stage Physics-Informed Neural Network for Incompressible Flow Simulations Sichuan University, China		S.2-A.5 Yannick Lecomte Yannick Lecomte, Alessandro Grava, Emanuele Garone, Miguel A. Mendez Bayesian Reinforcement Twinning: A Multi-Fidelity Framework for Reciprocal Learning Between Digital Twins and Control von Karman Institute for Fluid Dynamics, Belgium	S.11-A.11 Armand de Villeroché Armand de Villeroché, Rem-Sophia Mouradi Anchored-Branched Steady-state Wind Flow Transformer (AB-SWIFT): a metamodel for 3D atmospheric flow in urban environments 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 Rohrer, Clemens Gössnitzer, Ricardo Novella, José María García-Oliver, Stefan Posch Physics-informed Neural Networks and Differentiable Chemistry for Solving the Unsteady Flamelet Equation 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 Reinforcement Twinning for Control of Transport-Dominated Systems with Partial Observations von Karman Institute for Fluid Dynamics, Belgium	S.1-A.16 Jan Rottmayer Jan Rottmayer, Emre Özkaya, Long Chen, Nicolas R. Gauger Bayesian Neural Network Surrogates for Aerodynamic Shape Design RPTU Kaiserslautern-Landau, Germany
18:15-18:30	Closing Remarks, Manolis Gavaises				
18:30-23:00	Farewell drinks, Gala Dinner, Cretan night & Dance (Maich)				