ISPIV2025 Program
Updated on June 17, 2025

Day 0 - Wednesday Afternoon, 25 June 2025	
15:00 | 18:00	Registration Reception Hall, International Exchange Bldg
15:00 | 19:00	Welcome Reception Reception Hall, International Exchange Bldg

Day 1 - Thursday Morning I, 26 June 2025			
8:30	Venue opens		
8:50	Opening and Welcoming Address Room 417, Central Bldg		
9:00	**Plenary Lecture I** Room 417, Central Bldg Chair: Fulvio Scarano Enabling Techniques for Volumetric Velocity Measurements: from Self-calibration, Iterative Particle Reconstruction to Object Registration Bernhard Wieneke (LaVision GmbH)		
9:45	Break		

	Particle Tracking Velocimetry I Room 417, Central Bldg Chair: Andreas Schroeder	**Uncertainty Quantification** Room 402, Central Bldg Chair: Koji Okamoto	**Aerodynamics I** Room 409, Central Bldg Chair: Giampaolo Romano	**Boundary Layers I** Room 405, Central Bldg Chair: Ellen Longmire
9:50	Accurate determination of acceleration statistics in a turbulent jet using locally adapted TrackFit Tom Buchwald, Daniel Schanz, Andreas Schröder[1061]	Estimation of particle number and detection error from simple peak detection for PTV and LPT. Lionel Thomas, Benoît Tremblais, Bertrand Mercier, Laurent David[1168]	An experimental investigation on a Darrieus turbine using time-resolved PIV Giorgio Moscato, Navid Aryan, Domenico Corapi, Fabio Di Felice, Giovanni Paolo Romano[1039]	Interaction between a spanwise cylinder wake and turbulent boundary layer Raphael Ribeiro, Ellen K Longmire, Melissa A Green[1067]
10:10	Enhanced PeakCNN: Peak detection with partial pre-knowledge from IPR Philipp Godbersen, Daniel Schanz, Andreas Schröder[1172]	Convergence of Cyclic and Stochastic Turbulence Measurements using PIV of an Electric Propeller in Hover Peter Sorensen, Keerthan Ganeshan, Daniel Cuppoletti[1127]	Studying the Interaction Between Vortex Dynamics and Sensor Optimization Placement in Surface Pressure Mapping of the Ahmed Body Ayoub Jebli, Taku Nonomura, Takayuki Nagata[1125]	Flow analysis of delta winglet vortex generators by Stereoscopic Particle Image Velocimetry Gilles De Baets, Yasaman Parvizifard, András Szabó, Péter Nagy, György Paál, Ofelia Jianu, Maarten Vanierschot[1146]
10:30		Flow reconstruction with uncertainty quantification from PIV based on Bayesian physics-informed neural networks Hailong Liu, Rui Deng, Zhi Wang, Shipeng Wang, Shengze Cai[1017]	Modal analysis of the turbulent wake impact in transonic shock buffet mode Christopher Julian Schauerte, Anne-Marie Schreyer[1141]	Experimental Study on the Influence of Finlet Treatments on the Three-Dimensional Turbulent Structures and Wall-Pressure Fluctuations Zhihang Pan, Qingqing Ye[1081]
10:50	Break (Drinks provided in Rooms 403, 416, and 418, Central Bldg)			

Day 1 - Thursday Morning II, 26 June 2025			
	Particle Tracking Velocimetry II Room 417, Central Bldg Chair: Daniel Schanz	**Data Assimilation I** Room 402, Central Bldg Chair: Xiaofeng Liu	**Aerodynamics II** Room 409, Central Bldg Chair: Steven Beresh	**Boundary Layers II** Room 405, Central Bldg Chair: Phillipe Bardet
11:20	XYclopZ: a Single-Camera 4D Lagrangian Particle Tracking (4D-LPT) method for High-Speed flows measurements Andres Alejandro Aguirre Pablo, Abdullah A Alhareth, Sigurdur T Thoroddsen[1113]	Omnidirectional-Integration enabled pressure Dirichlet boundary conditions for adjoint-based 3D data assimilation Mohamed Abassi, Qi Wang, Xiaofeng Liu[1134]	Velocimetry of Expansion-Compression Geometries in High-Speed Flows Steven Beresh, William Swain, J Clark Pehrson, Anshuman Pandey, Douglas Carter[1005]	The influence of hairpin packets on drag reduction in turbulent boundary layer at low Reynolds number Zichun Zhang, Yufei Wang, Xiaoqi Cheng, Guanghao Chen, Nan Jiang[1027]
11:40	Particle transportations in deep water with wind-induced turbulence Wagih Abu Rowin, Yu Xia, Aman Kidanemariam, Jason Monty[1031]	Lift coefficient of a turbo-sail airfoil measured by PIV-based pressure field computations Yuichi Murai, Yimo Wang, Hyun Jin Park, Yuji Tasaka[1089]	Experimental study on wave structures and their interaction with the shear layer in a transonic jet Xintao Lu, Qi Gao, Wenxuan She, Yuhu Qu, Hang Zhao, Tong Jia, Yuan Xiong[1095]	On the spatial and temporal development of reverse flow- and high wall-shear stress events in ZPG-TBL Andreas Schröder, Daniel Schanz, Reinhard Geisler, Christina Voss, Hyungmin Shin, Philipp Godbersen, Janos Agocs, Abhijna Simhan[1170]
12:00	Quantitative characterization and dynamic evolution of 3D vortex rings using time-resolved 3D velocity field measurements Yukun Han, Jinho Oh, Chong Pan, Kyung Chun Kim[1091]	Assimilation of temperature and pressure from Lagrangian velocities in turbulent Rayleigh-Bénard convection Robin Karl Barta, Claus Wagner, Michael Mommert, Christian Bauer, Marie Christine Volk[1106]	Characterization of the Transonic Flow in a Turbine Cascade using High-speed PIV Michael Schroll, Joachim Klinner, Anna Petersen, Christian Willert, Robin Brakmann[1177]	Holographic PIV Measurement of the 3D Flow around a Rough-ness Element in the Inner Part of a Rough-Wall Turbulent Bound-ary Layer [Remote] Deepan Sharma, Joseph Katz[1114]
12:20	Volumetric investigation of geometry-induced sep-aration of a turbulent boundary layer Daniel Schanz, Reinhard Geisler, Jonathan Lemarechal, Andrea De Vincenco, Tobias Knopp, Andreas Schröder[1167]		Flow development over a low-Reynolds propeller in accelerating conditions Manuel Ratz, Christophe Schram, Andrea Sciacchitano, Miguel Alfonso Mendez[1054]	Time-resolved 3D particle tracking velocimetry with a single camera in the viscous layer and buffer region of a zero-pressure-gradient turbulent boundary layer Mark Yamakaitis, Alex Pigeon, Robert Ehrmann, Colin Parker, Jason Anderson, Philippe Bardet[1189]
12:40	Lunch (Boxed lunch provided on 2nd Floor, Arts Bldg)			

	Particle Tracking Velocimetry III Room 417, Central Bldg Chair: David Rival	Theory and Algorithms I Room 402, Central Bldg Chair: Bertrand Lecordier	Application I Room 409, Central Bldg Chair: Andrea Sciacchitano	Boundary Layers III Room 405, Central Bldg Chair: Hiroki Nagai
13:50	Stereo-matching using time information for 3D-PTV flow measurements Ron Shnapp, Benny Vradman, Manikandan Ragunathan[1118]	Towards dissipation estimation from single-pixel velocity correlations Sven Scharnowski, Gosse Oldenziel, Jerry Westerweel[1075]	On-site 3D LPT for Automotive Underbody Aerodynamics Coen Holland, Adrian Grille Guerra, Andrea Sciacchitano[1103]	Observation of boundary-layer transition on a waverider by means of Particle Image Velocimetry in a shock tunnel Simon Bagy, Christian Rey, Berthold Sauerwein, Rémy Kempf, Friedrich Leopold[1197]
14:10	Particle Characterisation for Defocusing Particle Tracking Velocimetry at Elevated Temperatures and Pressures Heinrich Lionel Lange, Fabian Lorig, Tobias Klein, Robin Leister, Michael H. Rausch, Andreas Paul Fröba, Jochen Kriegseis[1155]	A new sub-pixel approach based on multi-correlation maps for velocity vector evaluation in PIV algorithms Corine Lacour, Bertrand Lecordier[1144]	Investigation of Flow Characteristics in TPMS Structures Using PIV Jong Bae Lee, Sung Yong Jung[1139]	Analysis of Intermittent Laminar-to-Turbulent Transition from PIV Measurements: Application to Airfoil Boundary Layers in High Free-Stream Turbulence Connor Toppings, Serhiy Yarusevych[1123]
14:30	A Volumetric Particle Tracking Velocimetry Tech-nique Based on a Single Color Camera With Tri-chromatic Mask Yiqun Liu, Junfei Ding, Xiaoyi Liang, Yong Zhang, Haiping Tain[1030]	Submicron-resolution single-pixel ensemble PIV for turbulent flow measurements in the near wall region Tse Fu Chang, Kim Boon Lua[1110]	Camera Calibration Using Fiducial Markers:A Novel Tool for Automated PIV Systems Andre Michael Brunn, Osmond Tedjasukmana, Frank Michaux, Chris Willert, Stephan Kallweit[1135]	Investigation of Spanwise Velocity Variations along Wing Surface using Curved Laser Sheet PIV Ritsuki Mise, Tsubasa Ikami, Hiroki Nagai[1124]
14:50	Single-shot measurement of 3D morphology and 3D position of microparticles using holographic PTV and deep learning Jihwan Kim, Sang Joon Lee[1133]	A Projection Concentration Maximization Method for Event-based Imaging Velocimetry Jia Ai, Zuobing Chen, Wenbin Ning, Yong Lee[1084]	Experimental Investigation of Secondary Flow Structure of Enclosed Rotating Flow based on 3D Reconstruction using 2D PIV Measurements Tomohiro Ueno, Ren Nakamoto, Ibrahim Abubakar Masud, Katsuaki Shirai[1052]	Internal PIV Measurements of Flows in Ducts with Aggressive Shape Change Vincent Onoja, Roshan Baskaran, Daniel Cuppoletti[1129]
15:10		A data-consistent model-driven particle 3D reconstruction method based on KL projection Peng Lei, Hua Yang, Zhou Pin Yin[1116]		Measurement Technique Comparison in a Turbulent Boundary Layer Robin Leister, Patricia Sujar Garrido, Katrin Klingel, Ramis Örlü, Radomir Beslac, Thomas Rockstroh, Jochen Kriegseis, Bettina Frohnapfel[1004]
15:30	Break (Drinks provided in Rooms 403, 416, and 418, Central Bldg)			

Day 1 - Thursday Afternoon I, 26 June 2025

	Particle Tracking Velocimetry IV Room 417, Central Bldg Chair: Fulvio Scarano	Machine Learning I Room 402, Central Bldg Chair: Christian Cierpka	Aerodynamics III Room 409, Central Bldg Chair: Christian Kähler	Flow Control I Room 405, Central Bldg Chair: Yoshitsugu Naka
16:00	Color 3D-PTV in air flows with HFSB Hyun Jin Park, Adrian Grille Guerra, Fulvio Scarano[(1046)]	Super kernels for optical flow estimation in particle image velocimetry Yuvarajendra Anjaneya Reddy, Joel Wahl, Mikael Sjödahl[(1194)]	Parametric Study of Sparse Processing PIV for Feedback-based Flow Separation Control on Airfoils Rodrigo Viguera, Ryo Naramura, Yasuo Sasaki, Taku Nonomura[(1126)]	AI-based active flow control of wingtip vortices via synthetic jets Alessandro Scala, Gerardo Paolillo, Carlo Salvatore Greco, Tommaso Astarita, Gennaro Cardone[(1109)]
16:20	3D3C rainbow PTV applying to air flow of tornado-like vortex Mao Takeyama, Masaya Ukegawa, Kota Fujiwara, Koji Sassa, Yasuo Hattori[(1143)]	Bidirectional self-correcting optical flow network for tomographic particle image velocity measurement Hua Yang, Xin Li, Zhouping Yin[(1035)]	Analysis of Ground Linking Phenomena in Wake Vortices after Aircraft Landing Sven Grundmann, Martin Brede, Gustavo Castaneda Fuentes[(1050)]	Scaling analysis of a manipulated round jet using six distributed unsteady minijets Dewei Fan, Yuling Xue, Jianjun Du, Yu Zhou[(1065)]
16:40	Event-based Ensemble Particle Tracking Velocimetry for Efficient Single-pixel Turbulent Statistics Jiajun Cao, Zeng Xin, Lyu Zhen, Zijun Huang, Chuangxin He, Zhaomin Cao, Yingzheng Liu[(1068)]	Event-based particle tracking using artificial neural networks Sebastian Sachs, Steffen Jung, Margret Keuper, Christian Cierpka[(1036)]	Laminar separation bubble evolution on an airfoil accelerated from rest and decelerated to rest Christian J. Kaehler, Wolfgang Dierl, Serhiy Yarusevych, Rainer Hain[(1088)]	Event-based imaging velocimetry for jet flow control Luca Franceschelli, Enrico Amico, Marco Raiola, Christian Willert, Jacopo Serpieri, Gioacchino Cafiero, Stefano Discetti[(1164)]
17:00	Glare-point particle tracking over large scales using event-based imaging David E Rival, Robin Leister, Michael Hilfer[(1120)]	Deep learning enhanced particle tri-view image extraction and 3D reconstruction for trichromatic mask PIV Xiaoyi Liang, Junfei Ding, Yong Zhang[(1117)]	Tip vortex characterisation from LPT measurements Hervé Bonnard, Ludovic Chatellier, Laurent David[(1163)]	FLOW SEPARATION CONTROL OVER CETACEAN-INSPIRED AND BIRD/INSECT WING-INSPIRED AIRFOILS DU 06 W 200 Omid Ali Zargar, Shih-Cheng Hu[(1001)]
17:20	A Novel Particle Streak Velocimetry by Fusing Event- and Frame- Based Cameras Xin Zeng, Jiajun Cao, Zhen Lyu, Zijun Huang, Chuangxin He, Zhaomin Cao, Yingzheng Liu[(1022)]	Semi-supervised machine learning with overabundant unlabelled samples in data-driven flow estimation Junwei Chen, Marco Raiola, Stefano Discetti[(1080)]	On the interactional effects of rotor blade tip vortices in the wake of μUAVs Giosuè Longobardo, Tommaso Astarita, Fabrizio De Gregorio[(1026)]	Separation detection based on wall pressure fluctuations in natural and controlled flows around a wing Yoshitsugu Naka, Rion Handa, Shintaro Sato, Rei Sasaki, Naofumi Ohnishi[(1195)]
17:40	Three-Dimensional Orientation Tracking of Non-Spherical Inertial Particles Using Event Cameras Young In Park, Hyungmin Park[(1047)]		Flow interactions of a near-wall oscillating cylinder in the wake of another. Guanghao Chen, Mahbub Md. Alam, Nan Jiang[(1010)]	PIV measurements of cavitating flow around a hydrofoil Rafat Ivan Ahamed Simanto, Sion Jin, Byoung-Kwon Ahn[(1130)]

Day 1 - Thursday Afternoon II, 26 June 2025

Day 2 - Friday Morning I, 27 June 2025			
9:00	**Plenary Lecture II** Room 417, Central Bldg Chair: Ellen Longmire Diving into a Sea of Data: Lagrangian Tracking of Polydispersed Bubbles in Intense Turbulence Rui Ni (Johns Hopkins University)		
9:45	Break		
	Particle Tracking Velocimetry V Room 417, Central Bldg Chair: Bernhard Wieneke	**Theory and Algorithms II** Room 402, Central Bldg Chair: Pavlos Vlachos	**Stereo PIV I** Room 409, Central Bldg Chair: Kenny Breuer	**Jets, Shear Layers and Wakes I** Room 405, Central Bldg Chair: Sigurdur Thoroddsen
9:50	On the accuracy of multi-exposure 3D-PTV Adrian Grille Guerra, Fulvio Scarano, Bernhard Wieneke[1069]	Multi-Peak Cross-Correlation Particle Image Velocimetry Using Generalized Linear Regression with RBF Kernel Anubhav Dey, Pavlos P Vlachos[1176]	The distribution of pressure pattern around foot and wake flow fields during underwater kick swimming Hirofumi Shimojo, Yusaku Nakazono, Jun Sakakibara, Takaaki Tsunokawa, Yasuo Sengoku, Hideki Takagi[1184]	Conditional Sampling of Vortical Structures in a Turbulent Jet, using Scanning Tomographic PIV Sigurdur T Thoroddsen, Vivek Mugundhan, Tiernan A Casey, Jun Sakakibara[1151]
10:10	Detection of low-velocity traces in ME-PTV Fulvio Scarano[1071]	Regression methods for Image-based Probability Estimation of Displacements and its applications to finding Nanoparticle Size Distributions and Noise Induced Error Reduction Anubhav Dey, Pavlos P Vlachos[1175]	Exploring the Potential of the PIV Method: Advancing High-Performance Swimming ~ A Case Study on Human UUS ~ Yusaku Nakazono, Hirofumi Shimojo, Jun Sakakibara, Yasuo Sengoku, Hideki Takagi, Takaaki Tsunokawa[1187]	Laser-Optical Method to Characterize Convective Round Nozzle Systems with a High Level of Heat Transfer Eileen Trampe, Eva Wensing, Dominik Büschgens, Christian Wuppermann[1008]
10:30	Progress on microscopic single-camera 3D Lagrangian particle tracking Charles Fort, Mark Joseph Yamakaitis, Philippe Matthieu Bardet[1059]	Qu-PIV: Particle image velocimetry via a quantum algorithm Philipp Pfeffer, Julia Ingelmann, Theo Käufer, Jörg Schumacher, Christian Cierpka[1038]	Investigation of Leading-Edge Vortex Dynamics with a Continuously Varying Leading Edge Sweep Using SPIV Travis Bouck, Nandeesh Hiremath[1029]	The effect of vortex structure near the turbulent/non-turbulent interface in synthetic jet flow Congyi Xu, Jinjun Wang[1012]
10:50	Break (Drinks provided in Rooms 403, 416, and 418, Central Bldg)		

	Particle Tracking Velocimetry VI Room 417, Central Bldg Chair: Benjamin Leclaire	Volumetric Techniques I Room 402, Central Bldg Chair: Massimiliano Rossi	Flow Control II Room 409, Central Bldg Chair: Yuichi Murai	Jets, Shear Layers and Wakes II Room 405, Central Bldg Chair: Tommaso Astarita
	Day 2 - Friday Morning II, 27 June 2025			
11:20	Particle Pairing through Vector Field Consensus for 3D Particle Tracking at High Seeding Densities Jean Le Bris, Adam Cheminet, Philippe Cornic, Benjamin Leclaire, Frederic Champagnat[1025]	First Defocus Particle Tracking Challenge: Chip-in-the-Box and multi-flavor datasets Massimiliano Rossi, Sebastian Sachs, Christian Cierpka[1147]	PERFORMANCE OF AIR CURTAIN APPLIED IN FRONT OPENING UNIFIED POD (FOUP) Omid Ali Zargar, Shih-Cheng Hu[1199]	PIV measurements through straight shocks with different tracers in a supersonic over-expanded jet Benjamin Blaisot, Sylvain Petit, Renaud Jalain[1102]
11:40	Towards moving objects within the Object-aware Lagrangian particle tracking framework Thomas Rockstroh, Robert Brinkema[1057]	Object reconstruction in a moving experiment using multiple views Ali Rahimi Khojasteh, Edwin Overmars, Willem Van De Water, Jerry Westerweel[1108]	Interaction between microbubbles and turbulent structures in a pipe flow Xianfeng Wu, Yasuhisa Hamana, Yoshiyuki Tsuji[1040]	Study of Puff Formation while Laminar to Turbulent Supercritical Transition of Circular Cross-Section Fully Developed Free Jet Pawan Kumar Karn, Sandeep Saha, Debopam Das[1137]
12:00	Double refractive particle tracking and sizing Joerg Koenig, Christian Cierpka[1053]	DefocusTrackerAI: Adaptive and Automatic Detection of Defocused Particle Images Gonçalo Coutinho, Ana Moita, António L.N. Moreira, Massimiliano Rossi[1019]	Volumetric measurements above a DBD PA array for oscillatory forcing in a turbulent channel flow Saskia Pasch, Theodoros Michelis, Robin Leister, Patricia Sujar Garrido, Jochen Kriegseis[1152]	Free flow field of a stabilized precessing jet Cristina D'Angelo, Gerardo Paolillo, Carlo Salvatore Greco, Gennaro Cardone, Tommaso Astarita[1098]
12:20	A Deep Learning Framework with Graph Optimal Transport for Particle Tracking Velocimetry Zhi Wang, Zixuan Wang, Chao Xu, Shengze Cai[1074]			
12:40	Lunch (Boxed lunch provided on 2nd Floor, Arts Bldg)			

Day 2 - Friday Afternoon I, 27 June 2025			
13:50	**Ronald J. Adrian Award Lecture** Room 417, Central Bldg Chair: Jun Sakakibara Development of 3-D PTV for Marangoni Experiment in Space (MEIS) Koichi Nishino (Yokohama National University)		
14:35	Group photo		
14:45	Break		
	Particle Tracking Velocimetry VII Room 417, Central Bldg Chair: Rui Ni	**Theory and Algorithms III** Room 402, Central Bldg Chair: Koichi Hishida	**Flow Instabilities I** Room 409, Central Bldg Chair: Jerry Westerweel	**Jets, Shear Layers and Wakes III** Room 405, Central Bldg Chair: Masaki Fuchiwaki
14:50	Characterisation of the Self-Similar Adverse Pressure Gradient Turbulent Boundary Layer Near Separation Using High-Spatial-Resolution PIV Ziqi Chen, Bihai Sun, Alireza Heidarian, Julio Soria[1063]	Robust estimation of particle image density up to high values through probabilistic modelling Maximilien Hebey, Benjamin Leclaire, Frédéric Champagnat[1056]	PIV and laser interferometry reveal evaporation mechanism of a binary sessile droplet Minhyeok Kuk, Hyoungsoo Kim[1014]	The Evolution of Jet Characteristics in the Near-field Tip Leakage Vortex of NACA0012 Hydrofoil Yuhu Qu, Wenxuan She, Qi Gao[1094]
15:10	Tomographic particle tracking velocimetry measurements in the tip region of a ducted marine propeller Ayush Saraswat, Chintan Panigrahi, Kirtivardhan Singh, Joseph Katz[1083]	Color Crosstalk in Dual Color PIV Mitanjali Mitanjali, Jun Chen, Vaibhav Arghode[1034]	Three-Dimensional Flow-Field Measurements of Vapor-Driven Solutal Marangoni Flows in a Droplet Using Astigmatic Particle Tracking Velocimetry Julius Mauch, Jochen Kriegseis, Hyoungsoo Kim[1007]	Time-resolved flow field reconstruction from wall heat-transfer measurements in impinging sweeping jets Victor Duro, Marco Raiola, Rodrigo Castellanos, Carlos Sanmiguel Vila[1178]
15:30			Vortex Dynamics in Instationary Rotating Flow Lyke E. Van Dalen, Janbert Flor, Jerry Westerweel[1062]	Vortex Structure Formed by an Interaction between an Inclined Sweeping Jet and a Main Flow Masaki Fuchiwaki, Surya Raghu[1190]
15:50	Break (Drinks provided in Rooms 403, 416, and 418, Central Bldg)		

	Day 2 - Friday Afternoon II, 27 June 2025			
	Data Assimilation II Room 417, Central Bldg Chair: Zhao Pan	**Data Post-Processing** Room 402, Central Bldg Chair: Louis Cattafesta	**Multiphase Flows** Room 409, Central Bldg Chair: Kyung Chun Kim	**Jets, Shear Layers and Wakes IV** Room 405, Central Bldg Chair: Hitoshi Ishikawa
16:20	An AOT algorithm based Data Assimilation Method for Flows Reconstruction from Time-Resolved 3D Lagrangian Particle Tracking Data Lanyu Li, Zhao Pan[1182]	Spectral characterisation of time-resolved PIV processing methods Peter Manovski, Wagih Abu Rowin, Matteo Giacobello, Charitha De Silva, Nicholas Hutchins, Ivan Marusic[1099]	Identification of bubble size distribution for cloud cavitation over twisted hydrofoil using high-speed imaging Wenbiao Huang, Yuwei Wang, Hao Zhang, Lianghao Xu, Guoping Zhang, Qingqing Ye[1087]	Vibration behavior of a flexible membrane wing in a streamwise accelerating gust Xi He, Siyuan Feng, Qinfeng Guo, Jinjun Wang, Chong Pan[1198]
16:40	Application of Eulerian vorticity time-marching method to FlowFit3 Young Jin Jeon[1112]	Frequency Filtered Decompositions; -A unifying approach to various Modal Analyses Bo Beltoft Watz, David Hess, Gökhan F Ergin, Pietro Sperotto[1009]	Interaction between the turbulent coherent structures and micro bubbles for cloud cavitation Wenbiao Huang, Qingqing Ye[1086]	Vortex Behaviors Formed by Effective Three-Dimensional Elastic Deformation of Butterfly Wings Sei Haishi, Masaki Fuchiwaki[1162]
17:00	Robust Flow Field Reconstruction Using PINN for 3D Lagrangian Particle Tracking Hyungmin Shin, Andreas Schröder[1142]	Estimation of Velocity Gradient and Hessian Tensors from Particle Tracking Velocimetry Yang Zhang, Louis Cattafesta, Peter Schmid[1115]	Inertial Sphere Trajectories in Pipe Expansion using Refractive-Index-Matched Tomographic PIV Jibu Tom Jose, Gal Friedmann, Omri Ram[1021]	Behavior of Hairpin Vortex in the Wake of Axisymmetric Bodies Kanta Inoue, Shi Hashimoto, Yu Nishio, Hitoshi Ishikawa[1078]
17:20	Neural-Implicit Particle Advection for Flow Reconstruction from Lagrangian Tracks Ke Zhou, Rui Tang, Guanguan Ke, Samuel Jacobi Grauer[1202]	Meshless Galerkin modelling for time super-sampling of particle-based velocimetry Qihong Lorena Li Hu, Iacopo Tirelli, Miguel Alfonso Mendez, Andrea Ianiro, Stefano Discetti[1150]	Quantitative visualization of 3-D bubble morphology and surrounding flow field using 4-D PTV Jinho Oh, Kyung Chun Kim[1032]	Measurement of turbulent wake flows near an unsteady free surface using defocusing PIV Cong Wang, Chukwudum Eluchie, David Butler, David Jeon, Morteza Gharib[1193]
17:40	Fast and accurate reconstruction of pressure from PTV measurements using smooth particle hydrodynamics Meet Patel, Harish Ganesh, Jesse Capecelatro[1169]	Data-Driven Approach for Combining Multiple Fields of View in Unsteady PIV Data Haruka Kurahashi, Tsubasa Ikami, Hiroki Nagai[1159]		Measuring the full instantaneous dissipation rate Clara Marika Velte, Martin Schiødt, Haim Abitan[1066]
18:30	Banquet bus departs from the parking lot near the North Gate. See "Bus to Banquet" on the Venue Map.			
19:00 | 21:00	Banquet (Meiji Kinenkan)			

Day 3 - Saturday Morning I, 28 June 2025			
9:00	**Plenary Lecture III** Room 417, Central Bldg Chair: Masahiro Motosuke Active Turbulence in Bacterial Suspensions: Emergent Vortex Lattice, Reversals and Chirality Daiki Nishiguchi (Institute of Science Tokyo)		
9:45	Break		
	Biomedical Applications Room 417, Central Bldg Chair: Kenji Kikuchi	**Combustion** Room 402, Central Bldg Chair: Nao Ninomiya	**Stereo PIV II** Room 409, Central Bldg Chair: Joseph Katz	**Micro-/Nanofluidics** Room 405, Central Bldg Chair: Sang Joon Lee
9:50	Analyzing Intestinal Flow via Nanoparticle Tracking to Evaluate Mixing Efficiency Jiawei Huang, Kenji Kikuchi, Keiko Numayama-Tsurata, Takuji Ishikawa[1015]	Influence of an active pre-chamber on the flow in a molecularly-controlled combustion engine Tim Philippe Rommelaere, Michael Klaas, Wolfgang Schröder, Dominik Krug[1042]	Investigation of Stereo-PIV Measurement of Droplet Velocity in a Pressure Swirl Atomizer Spray Ibrahim Alsafadi, Afshin Goharzadeh, Hamid Ait Abderrahmane[1154]	Dynamics of condensate droplets on a superslippery surface with a lubricant layer. Gyu Do Park, Sang Joon Lee[1138]
10:10	Comparative Study Of Newtonian And Non-Newtonian Flow Inside A Compliant Aortic Bifurcation Model Benedikt Harald Johanning-Meiners, Michael Klaas[1049]	Three-dimensional vortical structures in a swirl combustor water model Hanyoung Kim, Jinho Oh, Sechul Oh, Kyung Chun Kim[1132]	Experimental Study of the Effects of Turbulence Agglomerator Channels using Stereoscopic PIV Hasan Syafik Maulana, Wei Hsin Tien[1051]	Time-resolved MicroPIV measurements in planar uniform micropore networks with a blocked junction Tian Wang, Fahrettin Gökhan Ergin, Lijuan Shi, Alexander Shapiro[1072]
10:30	Particle Tracking Analysis of Senescent Cell Dynamics Using Frequency-Modulated Dielectrophoresis Ippei Yagi, Satoshi Uchida[1064]	PIV Measurements of Oxy-Ammonia Coaxial Jet Flames Hazim Shehab, Yong Fan, Norihiko Iki, Masayasu Shimura, Takehiko Segawa, Taku Tsujimura[1188]	Stereo- PIV system to measure wall shear stresses through a curved body [Remote] Chintan Panigrahi, Spencer Zimmerman, Joseph Katz[1097]	Velocity-Based Analysis of Oscillatory Flow Instability around Pillar Arrays in a Polymer Solution Using μPIV Syusuke Takizawa, Masahiro Motosuke, Yoshiyasu Ichikawa[1203]
10:50	Break (Drinks provided in Rooms 403, 416, and 418, Central Bldg)		

Day 3 - Saturday Morning II, 28 June 2025			
	Experimental Technique and Equipment I Room 417, Central Bldg Chair: Christian Willert	**Machine Learning II** Room 402, Central Bldg Chair: Daniel Cuppoletti	**Stereo PIV III** Room 409, Central Bldg Chair: Joerg Koenig	**Application II** Room 405, Central Bldg Chair: Koichi Nishino
11:20	Real-time Particle Image Velocimetry Using Event-based Imaging Christian Willert, Luca Franceschelli[1179]	Data-Driven Particle Inertia Bias Correction for Supersonic PIV Dilip Kalagotla, Paul Orkwis, Daniel Cuppoletti[1128]	3D-WSS and Pressure Fields Measurement on Laminar Pipe Flow by SS-PIV Nuo Chen, Daisuke Iwata, Yoshiyasu Ichikawa, Masahiro Motosuke[1192]	Investigation of an oscillatory particle separator using planar and stereo PIV Theodoros Dimas, Bram Verbeek, Brecht Michiels, Jef R Peeters, Maarten Vanierschot[1166]
11:40	Development of a defocused PTV technique for 3D3C measurements using a single camera. Application to the dynamics of a pulsed laminar jet Tony Kayvantash, Hervé Duval, Matthieu Cordier, Laurent Zimmer[1157]	Measurement of size and 3D position of spray drops with astigmatic shadowgraphy and deep learning Mohammad Mehdizadeh Youshanlouei, Gökhan Ergin, Yari Basso, Gabriele Bellani, Massimiliano Rossi[1149]	A Numerical Exercise: Density Field Extraction Using SPIV Travis Bouck, Nandeesh Hiremath[1033]	PIV measurement of transient thermocapillary flow driven by local laser heating Ratnanjali Tiwari, Misa Ishimura, Koichi Nishino[1196]
12:00	Flow in the wake of a vehicle front tire: a comparison between stereoscopic PIV and Two-Pulse 3D Shake-the-Box Timo Gericke, Ahmed Oguzhan Erdogdu[1020]	On Uncertainty Prediction for Deep-Learning-based Particle Image Velocimetry Wei Wang, Jeremiah Hu, Jia Ai, Yong Lee[1044]		Flow Visualization of Unsteady Trailing Edge Flows Osman Giray Oguzman[1174]
12:20	Study on PIV Measurement in Full-Scale Indoor Spaces: Analysis of Airflow around Air conditioner and Occupants Using Multi-Camera and Laser Yuki Arinami, Shin-Ichi Akabayashi, Jiaming Hu[1101]	FED-PV: A large scale synthetic frame/event dataset for particle-based velocimetry Fan Wu, Xiang Feng, Aoyu Zhang, Yong Lee[1045]		Analysis of Planar Velocity Profiles in a Rotating Flow Driven by Enclosed Corotating Disks with Insertion Arm and Shroud Opening Using PIV Ibrahim Abubakar Masud, Ren Nakamoto, Tomohiro Ueno, Katsuaki Shirai[1048]
12:40	Lunch (Boxed lunch provided on 2nd Floor, Arts Bldg)			

Day 3 - Saturday Afternoon I, 28 June 2025			
	Experimental Technique and Equipment II Room 417, Central Bldg Chair: Jochen Kriegseis	**Volumetric Techniques II** Room 402, Central Bldg Chair: Callum Atkinson	**BOS/LIF** Room 409, Central Bldg Chair: Yu Matsuda	
13:50	Towards Massively Parallel Particle Tracking Velocimetry Jörg Thomas Sommerau, Bharath Ganapathisubramani, John Lawson[1145]	Treatment of light reflections in Omnidirectional PIV Adrian Grille Guerra, Laura Porcar Galan, Andrea Sciacchitano, Fulvio Scarano[1070]	A Transformer-Based Method for Measuring Displacement in Background Oriented Schlieren for Hypersonic Flow Density Fields [Remote] Hua Yang, Zekun Hao, Lei Chen, Yun Xu[1060]	
14:10	Omnidirectional Particle Image Velocimetry Luuk Antonie Hendriksen[1104]	Volumetric Digital Holographic Particle Tracking Velocimetry of High Reynold Number Turbulent Channel Flow Bihai Sun, Callum Atkinson, Julio Soria[1183]	Time-Resolved Density Measurement via Omni-Directional Integration Applied to Background-Oriented Schlieren Jonathan Davami, Thomas J Juliano, Jose Moreto, Xiaofeng Liu[1121]	
14:30	PIV/PTV Measurements of Thermocapillary Flow in a Liquid Layer using Fluorescent Tracer Particles Excited with Ultraviolet Light Taishi Yano, Yuji Nakanishi[1077]	Intraglottal Flow in Anatomically Realistic Models of the Larynx Using Tomographic PIV Charles Farbos De Luzan, Marion Raquin, Jacob Michaud-Dorko, Liran Oren, Ephraim Gutmark[1041]	Measuring airflow temperature distribution using ultra-thin glass tubes injected with temperature sensitive phosphors Shumpei Funatani, Takahiro Yamamoto, Kyosuke Kuroda, Hiroaki Higashioka, Yusaku Tsukamoto[1158]	
14:50		Full-length Wake Measurement of a Full-Scale Passenger Car using 'Ring of Fire' PIV Daniel Butcher, James Knowles, James Upton, David Hollis, Oguzhan Erdogdu[1082]	Simultaneous PLIF and PTV measurements of temperature and velocity in a stratified thermal energy storage Clemens Naumann, Christian Cierpka[1037]	
15:10	Break (Drinks provided in Rooms 403, 416, and 418, Central Bldg)			

Day 3 - Saturday Afternoon II, 28 June 2025			
	Biological Flows Room 417, Central Bldg Chair: Michael Klaas	**Flow Instabilities II** Room 402, Central Bldg Chair: Hyoungsoo Kim		
15:40	Surfing on Vortices: Bird flight responses to an unsteady vortex wake Siyang Hao, Rónán Gissler, Kenny Breuer[1011]	Investigation of Flow Fields for Stability in Embedded Printing Applications Hyejoon Jun, Junil Ryu, Hyoungsoo Kim[1018]		
16:00	PIV Analysis of a Turbulence Generator for Microalgae Study Wenhao Niu, Takuji Ishikawa, Kenji Kikuchi[1024]	Suppressing Rayleigh-Taylor Instability via Solutal Marangoni Effects Minwoo Choi, Hyejun Jeon, Hyoungsoo Kim[1016]		
16:20	Vortex disappearance of high-density bacterial suspension with shear flow. Ishikawa Takuto, Kenji Kikuchi[1085]			
16:40	Closing Room 417, Central Bldg			