

June 22(Sun)

[illegible]

Timetable

June 23(Mon)

[illegible]

Timetable

June 24(Tue)

Time	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8
9:00-9:30	Keynote IV, Prof. Chih-Yung Huang (Room 1)							
9:40-11:20	b-1-5	b-2-3	b-3-1	b-7-6	a-1-3	a-7-4	c-2-1	
	ISFV21-1032	ISFV21-1042	ISFV21-1005		ISFV21-1103	ISFV21-1034	ISFV21-1200	
	ISFV21-1065	ISFV21-1215	ISFV21-1185		ISFV21-1144	ISFV21-1041	ISFV21-1174	
	ISFV21-1109	ISFV21-1024	ISFV21-1190		ISFV21-1057	ISFV21-1052	ISFV21-1137	
	ISFV21-1114	ISFV21-1062	ISFV21-1073		ISFV21-1231	ISFV21-1161	ISFV21-1094	
	ISFV21-1125	ISFV21-1260	ISFV21-1278		ISFV21-1020			
11:30-12:00	Keynote V, Prof. Yoshiyuki Tagawa (Room 1)							
12:00-13:00	Lunch Break							
13:00-13:50	Plenary III, Prof. Dr. Pavlos P. Vlachos (Room 1)							
14:00-15:40	b-1-6	b-2-4	b-3-2	b-7-7	a-1-4	a-7-5	c-2-2	
	ISFV21-1033	ISFV21-1058	ISFV21-1076		ISFV21-1087	ISFV21-1036	ISFV21-1157	
	ISFV21-1067	ISFV21-1083	ISFV21-1132		ISFV21-1158	ISFV21-1074	ISFV21-1238	
	ISFV21-1113	ISFV21-1142	ISFV21-1276		ISFV21-1124	ISFV21-1262	ISFV21-1060	
	ISFV21-1224	ISFV21-1173	ISFV21-1277		ISFV21-1241	ISFV21-1186	ISFV21-1075	
	ISFV21-1234	ISFV21-1259			ISFV21-1084			
15:40-16:00	Coffee Break							
16:00-18:00	b-1-7	b-2-5	b-7-8	a-6-1	a-1-5	a-7-6	c-1-1	
	ISFV21-1240	ISFV21-1165	ISFV21-1079	ISFV21-1044	ISFV21-1145	ISFV21-1229	ISFV21-1198	
	ISFV21-1250	ISFV21-1126	ISFV21-1207	ISFV21-1055	ISFV21-1118	ISFV21-1245	ISFV21-1050	
	ISFV21-1256	ISFV21-1131	ISFV21-1111	ISFV21-1063	ISFV21-1135	ISFV21-1012	ISFV21-1255	
	ISFV21-1265	ISFV21-1140	ISFV21-1128	ISFV21-1090	ISFV21-1160	ISFV21-1030	ISFV21-1133	
	ISFV21-1267	ISFV21-1168		ISFV21-1116			ISFV21-1225	
				ISFV21-1117				

June 22(Sun)

Time	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8
9:00-9:10	Opening Remark (Room 1)							
9:20-10:10	Plenary I, Dr. Benoît Fond (Room 1)							
10:20-12:00	b-1-1	a-5-1	a-4-1	b-5-1	b-4-1	a-2-1	a-3-1	
	ISFV21-1085 Experimental Assessment of PIV and MTV Techniques for Measurement of a Supersonic Free Jet under Rarefied Conditions Han June Park	ISFV21-1029 Numerical visualization of seepage water flowing through waste layers around a gas venting pipe installed vertically in a landfill site Kazuyuki Takase	ISFV21-1086 Passively flutter control of high-aspect-ratio flexible wings Lu Shen	ISFV21-1027 Utilizing Volumetric Magnetic Resonance Velocimetry for Visualizing Complex Turbulent Flows Sven Grundmann	ISFV21-1188 Usage of laser illumination for temperature-sensitive paint method Naveen Sanjeev Viswanathan	ISFV21-1006 Flow Differences in Forward vs. Backward Crescent Wings/Fins Mark Godfrey Mungal	ISFV21-1002 Dynamic stall visualization of plasma co-flow jet airfoil during pitching and plunging movement ENBO JU	
	ISFV21-1102 Synthetic color-and-depth encoded (scade) illumination-based high-resolution light field particle imaging velocimetry Depeng Wang	ISFV21-1205 Experimental and Numerical Investigation of Droplet Breakup in Aerodynamic Flow Feng Zhang	ISFV21-1095 An experimental study on vortex evolution of tandem slit resonators with grazing flow under acoustic modulation Yuchao Tang	ISFV21-1043 Temporal stress field measurement using flow-induced birefringence Yuto Yokoyama	ISFV21-1091 Improvement of Temperature-Sensitive Paint Formulation for Heating with Infrared Laser Daisuke Yorita	ISFV21-1143 Alternating Vortices in the Wakes of Dragonfly Wings and Corrugated Artificial Wings Natsuki Yamamoto	ISFV21-1099 Transonic shock buffet: relation between buffet frequency and shock location Sven Scharnowski	
	ISFV21-1147 Laser Wavelength Selection for Dual-Color PIV with Minimal Color Crosstalk MITANJALI NA	ISFV21-1249 An Experimental Investigation on Aerosol Scavenging using Electrically Charged Spray with Different Nozzles Ruicong Xu	ISFV21-1208 Analysis of the Wake of Low-Noise Propeller in Freestream HyunKyum Kim	ISFV21-1110 Investigation on Molecular Force Sensor for Wall Shear Stress Measurement Using Fluorescence Resonance Energy Transfer Reiko KURIYAMA	ISFV21-1192 Experimental investigation of transition on an NACA0015 airfoil using temperature-sensitive paint and particle image velocimetry Keesanth Singh Chandrasekaran	ISFV21-1217 Effect of corrugation wavelength on aerodynamic performance of a low-Reynolds-number airfoil Hyunbeom Lee	ISFV21-1209 PIV Test on the Model Wing with Morphing Trailing Edge Hangyu Lee	
	ISFV21-1184 Particle Image Velocimetry based on event camera and optical flow learning Tianyu Liu	ISFV21-1216 Modeling of Wear Prediction in a Corrosion Dominated Environment with Silica Sand Particles using Taylor Vortex Device Horas Sotardodo Siagian	ISFV21-1210 Performance of flow-induced vibrational power generator by cantilevered square prisms in tandem arrangement and its flow visualization Shunsuke Ikeda		ISFV21-1228 Skin friction distribution measurement on riblet using Temperature-Sensitive Paint Yuki Ito	ISFV21-1223 Mosquito evasion factors in the flow field caused by insect trap Hidekazu Shiraishi	ISFV21-1214 Aerodynamic Performance and Thrust Efficiency of Boundary Layer Ingestion Airfoil SeongWoo Park	
	ISFV21-1263 A POD-based spatial resolution enhancement method for real-time event-based imaging velocimetry Luca Franceschelli	ISFV21-1206 Why do shoes get wet on rainy days Hayato Hasegawa	ISFV21-1252 Experimental Flow Visualization of Curved Dynamic Vibration Absorbers on Wake Flow Dynamics in Marine Radar Antennas Aref Afsharfard		ISFV21-1266 Wall heat transfer measurements in turbulent boundary layers: Insights from water and air experiments Firoozeh Foroozan		ISFV21-1105 Characterization of flowfield around a propeller operating at low Reynolds numbers Gabriele Salomone	
12:00-13:10	Lunch Break							

13:10-13:40	Keynote I, Prof. Andrea Schacchitano (Room 1)							
13:50-15:30	b-1-2	a-5-2	c-3-1	b-7-1	b-4-2	a-2-2	a-3-2	
	ISFV21-1048 Aerodynamic investigation of sprinters: an on-site analysis Cristina D'Angelo	ISFV21-1046 Visualization of Fluid Movement Induced by Volume Change and Deformation in a Soft-Porous Sponge Makoto Miwa	ISFV21-1071 Automatic analysis of oil-flow visualizations using deep learning Ben Steinfurth	ISFV21-1271 Diffusion coefficient field at microscopy resolution visualized by particle image diffusometry Itsuo Hanasaki	ISFV21-1181 Nanoscale temperature imaging in nanoparticles transport field over the plasmonic heating surface Chiharu Sato	ISFV21-1009 Influence of the Cardiac Waveform on Newtonian and Non-Newtonian Flows in Straight Compliant Vessels Benedikt Harald Johanning-Meiners	ISFV21-1279 Turbulent boundary layer over bio-inspired surfaces: on the modification of turbulent coherent structures and wall-pressure patterns Qingqing Ye	
	ISFV21-1068 3D quantitative flow visualization around a ship at varying wind directions Ilda Hysa	ISFV21-1149 Measurement of brownout two-phase flow induced by hovering helicopter rotor using PIV/PTV Shaofei Wang	ISFV21-1072 Analysis of a high-speed flows pulsations in a shock tube using computer vision and deep learning Murat Muratov	ISFV21-1269 Flow visualization of high viscous mixing fluids in Y-junction micromixer with acoustic streaming induced by triangular spine structure Ayalew Yimam Ali	ISFV21-1201 Visualization of temperature distribution on heated surface using temperature-sensitive paint Ryota Asami	ISFV21-1146 Visualization of flow field in an intradialytic shunt vessel model with particle image velocimetry Shuya Shida	ISFV21-1270 Vortex dynamics of boundary layer disturbed by cylinder wakes Jiangsheng Wang	
	ISFV21-1169 Historic Vehicle Wake Analysis: 'Ring-of-fire' PIV Measurements on the Longest Surviving Jaguar E-Type Ahmed Oguzhan Erdogan	ISFV21-1227 Numerical investigation of droplet impingement characteristic with dual synthetic jets control on rotating spinner Wenjie Feng	ISFV21-1077 Prediction gear pump performance through hydraulic resistance of the fluidic circuit Suhwan Lee	ISFV21-1253 Dual-wavelength interferometric measurements of temperature and concentration fields of a volatile droplet impacting a solid surface Mohammad Autif Shahdhaar	ISFV21-1202 Visualization of temperature distribution of liquid film evaporation in a three-phase contact line using temperature-sensitive paint Shione Fujiwara	ISFV21-1123 Enhancing Particle Image Velocimetry with RAFT and Optical Flow for High-Fidelity Cardiovascular Flow Measurements Melis Serdar	ISFV21-1197 Experimental study on the over-tripped boundary layer turbulence induced by wall-mounted tripwires Letian Chen	
	ISFV21-1258 Large scale 3D particle tracking for the study of airborne transmission of pathogens in realistic class room settings Stephan Weiss	ISFV21-1139 Bubble segmentation in pool boiling at high heat flux Chi-an Feng	ISFV21-1193 Optimization of Airflow in Hospital Rooms Using Numerical Simulation and Surrogate Models Koji Koyamada	ISFV21-1261 Leading-Edge Vortex Effects on Flow Structures: A Comparative Experimental Study of Single and Double Delta Wings Linkai Li	ISFV21-1254 Flow and temperature visualization in chemical mechanical planarization process using ultraviolet excitation fluorescence and temperature-sensitive paint Wei-Hsin Tien	ISFV21-1047 Exploring Rigid Particle Margination in Red Blood Cell Flows via Unsupervised Learning Gonçalo Coutinho	ISFV21-1108 Visualization of scale-dependent convection velocities in a turbulent boundary layer with varying pressure gradients Peter Manovski	
	ISFV21-1264 On calibrating large-scale volumetric flow measurement experiments Daniel Schanz			ISFV21-1026 A Study on Aerodynamic Characteristics of a Wavy Wing with Winglets Yuto Hyodo	ISFV21-1031 Temperature and Velocity Simultaneous Measurement using Phosphorescence-PTV: Tracer Particle Preparation and Post-Processing Algorithms Tao Cai	ISFV21-1107 Stress visualization around a micro-organisms robot using photoelastic measurement Hitonari Kumagai	ISFV21-1089 The effect of polymer on pressure drag in a Separated Flow Wagih Abu Rowin	

15:30-16:00	Coffee Break							
16:00-17:40	b-1-3	a-5-3	c-3-2	b-7-2	b-4-3	a-2-3	a-3-3	
	ISFV21-1170 Recording 3D flow around "invisible" refractive index matched spheres Jibu Tom Jose	ISFV21-1246 Phase change heat transfer research using temperature sensitive paints Yutaku Kita	ISFV21-1134 3D Water Flow and Water Depth Sensor Using Absolute Pressure Sensors Arranged on a Regular Polyhedron Ryusei Ando	ISFV21-1037 Error Analysis on Background-Oriented Schlieren Measurements XIANG LI	ISFV21-1096 Development and Characterization of pressure-sensitive paint for the dynamic pressure reconstruction in cryogenic environment Jing Wu	ISFV21-1010 Video Analysis about the Luminescence Synchronization of <i>Luciola parvula</i> Kotaro Yamazaki	ISFV21-1018 Dynamics of a supersonic jet from a clustered linear plug nozzle measured with high-speed schlieren imaging Paul Wißmann	
	ISFV21-1177 Feasibility study on density measurement in supersonic/hypersonic air flow using FLEET emission intensities at two different times ryo shimizu	ISFV21-1213 PTV-assisted interfacial rheometry for visualizing multiphase shear banding in granular surface flow Yuichi Murai	ISFV21-1104 Optical Flow Methods for High-Resolution OCT Analysis of Complex Hemodynamics Eda Nur Saruhan	ISFV21-1038 Focusing Background Oriented Schlieren Technique Based on a Concave Spherical Mirror Xiang Li	ISFV21-1242 Characterization of RuDPP-Based PC-PSP for Application to Low Reynolds Number Aerodynamic Testing Tomoyuki Takizawa	ISFV21-1069 Cell Viability under Shear Stress in Ultrasound-Driven Microbubble Microstreaming Amirabas Bakhtiari	ISFV21-1155 Isolating Fast and Slow Flows in Schlieren Video Donald Derrick	
	ISFV21-1183 Application of an event camera for particle tracking velocimetry in a refractive index matched oil tunnel Christoph Heigl	ISFV21-1061 Numerical study on interfacial deformation by electrohydrodynamic flow at air-water interface Ji Hong Chung	ISFV21-1121 DMD-Based 3D Spatio-Temporal Superresolution Reconstruction of Supersonic Jets Chungil Lee	ISFV21-1080 Development of TDLAS and BOS Measurement Techniques for Hydrogen Combustion Gas Ejected from a Micro-Rocket Torch Shinichiro Ogawa	ISFV21-1244 Prototype Development of Dye-Painted AA-PSP Using Anodized Coatings on Aluminum Alloy Yuma Kawamata	ISFV21-1235 Quantification of Cell Flow during mid-pupal stage of fruit fly ommatidia Yukitaka Ishimoto	ISFV21-1152 Estimation of low frequency oscillation of normal shock wave in transonic flow controlled using high-frequency flapping-jet device from schlieren images Soki Matsuura	
	ISFV21-1204 Integration of TI-BOS Method and PIV for Simultaneous Measurement of Low-Speed Flow Dynamics yoshiyuki watanabe	ISFV21-1219 Effect of PTL Porosity on Bubble Behavior in PEM Electrolysis SeongKeun Kim	ISFV21-1167 Time Series Prediction Method for PIV data Using Time Evolution Equations Misato Kurosawa	ISFV21-1112 A parametric study on Neural deflection fields for tomographic BOS reconstruction based on an improved hierarchical sampling strategy Tong Jia	ISFV21-1011 Photostable two-color pressure-sensitive paint for unsteady measurements using organic luminophores Norihiro Yoshii	ISFV21-1156 Effects of vein network structures on blood flow in insect wings Kazuki Sugiyama	ISFV21-1153 PIV Measurement of Subsonic Compressible Corner Flow Controlled Using High-Frequency Flapping Jet Ryo Onishi	
	ISFV21-1257 Tomographic reconstruction of tracer particles in a cylindrical liquid bridge using a non-cuboidal voxel system Taishi Yano				ISFV21-1013 Evaluation of Pressure Sensitive Paint Frequency Response with a Sweeping Jet Louis Meyer Edelman		ISFV21-1187 Quantitative Visualization of the Flow Field Around a High-Speed Flying Object at 1/100 Atmospheric Pressure Toshiharu Mizukaki	
18:00-20:00	ISFV21 Symposium Reception							

June 23(Mon)

Time	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8
9:00-9:30	Keynote II, Prof. Chuangxin He (Room 1)							
9:40-11:20	b-1-4	b-4-4	b-7-3	b-7-4	a-7-1	a-3-4	a-1-1	
	ISFV21-1001 Multi-physical Fields Visualizations and Measurements for Anti- and De-icing Based on Plasma Actuation Weiwei Hui	ISFV21-1120 Experimental investigation on cavity-induced flapping jet flow above 15 kHz using fast response pressure-sensitive paint technology and data-driven approach Di Kong		ISFV21-1220 Three-dimensional Visualization of shock wave distortion by jet flow interference Masato Yamagishi	ISFV21-1093 PIV/PLIF study of swirling impinging flames Roman Tolstoguzov	ISFV21-1007 Flow structures of an oscillating cylinder near wall Guanghao Chen	ISFV21-1196 Flow Visualization Using Micro-PIV for Droplet Evaporation on a Substrate Chih-Ang Chung	
	ISFV21-1014 High-Speed Imaging of Droplet Break-Up and Coalescence: Investigating the Influence of a Helmholtz Resonator on Droplet Dynamics Alireza Heidarian	ISFV21-1127 Evaluation and Correction of Corner Reflection Induced Errors in Pressure-sensitive Paint Measurement Zichao Zhu		ISFV21-1221 Three-dimensional density measurement around a free-flight test model using Multi High-speed camera Masato Yamagishi	ISFV21-1119 Visualization of swirl-enhanced NH3/CH4/H2 Flame and combustion characteristics Hanyoung Kim	ISFV21-1148 Flow separation induced by an asymmetric oscillating fence Sicheng Li	ISFV21-1199 Flow Visualization over Simplified Leatherback Turtle Shell Models by means of Global Luminescent Skin Friction Meter and PIV Oliver SUNGCUAN SANTOS	
	ISFV21-1021 Optically-trapped particle tracking velocimetry for microflow analysis Tetsuro Tsuji	ISFV21-1189 Anodized-Aluminum Pressure Sensitive Paint (AA-PSP) Applied on Free-Flight Model in Hypersonic Shock Tunnel Taichi Itonaga		ISFV21-1130 Experimental Investigation of Ship Exhaust Dispersion by Cross-Plane Particle Concentration Measurements Abhilash Sankaran	ISFV21-1136 Temperature and velocity measurements for a Bunsen flame in a weak DC electric field Kirill Lavronov	ISFV21-1230 PIV Investigation of the Wake Flow Around a Circular Cylinder with Through Holes Anatoliy Sergeevich Lebedev	ISFV21-1222 Experimental Study on Axial Development of Liquid Film Flowing Down Inclined Plane with Sidewalls Masaya Usuda	
	ISFV21-1049 Harmonic Ultrasound Imaging Velocimetry measurements in Low Size-Ratio Suspensions Kai Zhang	ISFV21-1247 Pressure-Sensitive Paint Measurements on the Transonic Flow Field with Vortex Generators Chia Ching Wang		ISFV21-1268 Pressure-corrected vorticity fields around Acartia Tonsa nauplius during gravitaxis Fahrettin Gökhan Ergin	ISFV21-1092 Application of Thermally-Assisted OH PLIF for a model gas-turbine combustor Dmitriy Sharaborin	ISFV21-1017 The vortex shedding from the in-line forced oscillation cylinder which has an asymmetrical cross-section on a flow axis Yoshifumi Yokoi	ISFV21-1166 Visualization and Localization Method for High-Temperature Polluted Airflow Based on Background Oriented Schlieren (BOS) Junhao Rong	
	ISFV21-1151 Visualization of evaporation-driven flow inside an evaporating sessile droplet by means of Micro-PIV Hao Cong	ISFV21-1218 Visualization of Three-Dimensional Stall Phenomenon Using Optical Measurement Techniques in a Low-Speed Wind Tunnel Yosuke Sugioka				ISFV21-1141 Visualization and force measurement of flow over a circular cylinder up to Mach number of 0.7 at Reynolds number of $O(10^2)$ Takayuki Nagata	ISFV21-1028 Measurement for Three-Dimensional Concentration Distribution of Borated Water Diffused into Complex Geometry Tsugumasa Iiyama	

11:30-12:00	Keynote III, Prof. Carlo Salvatore Greco (Room 1)							
12:00-13:00	Lunch Break							
13:00-13:50	Plenary II, Prof. Sigurður T. Thoroddsen (Room 1)							
14:00-15:20	b-2-1	b-4-5	b-7-5	a-5-4	a-7-2	a-3-5	a-1-2	
	ISFV21-1045 Characterization of focusing schlieren system Eric IBARRA	ISFV21-1122 Simultaneous visualization of pressure and temperature fields by using DL-PTSP based on the lifetime-based method with two cameras Yuta Kanda	ISFV21-1019 Velocity and concentration field measurements for Solid particle impacts during atmospheric CO2 Oceanic absorption. serge Simoëns	ISFV21-1059 Hydrodynamic instabilities of a water-air interface triggered by a finite pulse Yu Liang	ISFV21-1161 Evaluation of CO2 hydrate barrier layer via water inflow to enhance safety in sub-seabed CO2 storage technology Keichi OBATA	ISFV21-1016 Dynamics of a Rectangular Vortex Ring Colliding with a Flat-Wall Yanqiao Song	ISFV21-1066 Visualization of liquid ammonia spray in a pressurized N2 chamber Jinho Oh	
	ISFV21-1106 High-speed Schlieren Imaging using Event-based Vision Cameras Christian Willert	ISFV21-1248 Pressure and Temperature Fluctuation Imaging on a Propeller Fan Using Unsteady PSP/TSP Yoshinori Kawahara	ISFV21-1023 Advection-based multiframe iterative correction on PIV fields for improved pressure estimation Junwei Chen	ISFV21-1171 Film deformation during dome-type water splash formation Yoshihiro KUBOTA	ISFV21-1115 Flow and Heat Transfer Characteristics During Expansion in an Ionic Liquid-Piston Compressor for Refueling Fuel Cell Electric Vehicles Van-Tinh Huynh	ISFV21-1056 On The Trajectories of Single and Tandem Jets-in-Crossflow Hequn Li	ISFV21-1064 Jet characteristics of LF plating equipment and its plating quality Asuka Kondo	
	ISFV21-1138 Schlieren flow visualization of laminar/turbulent boundary layer transition around a waverider geometry Simon Bagy	ISFV21-1178 Development of Dual-Layer PSP/TSP enhanced with sprayable optical filter in intermediate layer Rei Funatomi	ISFV21-1040 Development of a PIV system for Measuring Wake Characteristics of a Floating Offshore Wind Turbine Nobuyoshi Fujimoto	ISFV21-1098 Bubbly shock waves morphology characterization in cavitating flows via computer vision tools Elad Zur	ISFV21-1226 Chemometrics modeling and near-infrared imaging of aqueous acid – base reactions in microfluidic channels Koma Matsunaga	ISFV21-1159 Acoustic characteristics of underexpanded radial jet impinging on cylindrical inner wall Satoshi Yamazaki	ISFV21-1054 Study on Enhancing Dust Collection Efficiency Using Electrospray Technology Sung Ho Choi	
	ISFV21-1239 Glare-point Shadowgraphy for Interface Reconstruction Maximilian Dreisbach	ISFV21-1129 Global pressure and temperature field measurements using luminescent paint combined with machine learning Masaki Okawa	ISFV21-1180 Vortex force map method to estimate unsteady forces from particle tracking velocimetry Shuji Otomo	ISFV21-1194 Slug flow-induced vibrations: An experimental study YUBO JIN	ISFV21-1191 Convective heat transfer of impinging pulsed jets Antonio D'Onofrio	ISFV21-1154 Visualization of radial jet through cross-section with abrupt enlargement Kazuhiro Maeda	ISFV21-1182 Study on the Relation Between Induced Jet Strength and Surface Electrical Potential in Facing Plasma Actuator Yuki Ishii	

15:30-16:50	b-2-2 ISFV21-1088 Visualization of acoustic standing wave by BOS Mao Takeyama				a-7-3 ISFV21-1008 An Experimental Study to Explore a Novel DBD-Plasma-Based Anti-Icing Mitigation Hui Hu	a-3-6 ISFV21-1035 Experimental Insights from Rectangular Vortex Ring-Wall Collisions Bowen Xu		
	ISFV21-1101 Three-Dimensional Background-Oriented Schlieren Measurement of Mach-Wave Associated Structures in Supersonic Round Jet Masahito Akamine				ISFV21-1237 Buoyancy plumes of diluted ionic solution produced on electrode surfaces. abdul fattah bin Farid nasir	ISFV21-1003 Visualization of direct numerical simulation data of pipe flow turbulent spots reveals their quasi-cyclic life cycle at low Reynolds number Xiaohua Wu		
	ISFV21-1232 Application of Background Oriented Schlieren (BOS) Method for Analyzing Natural Convection in Electrolyte during Electrodeposition Ken Adachi				ISFV21-1078 A study on thermal effect of J-tube dimension and emissivity in submarine cable system Taehyun Kim	ISFV21-1251 Study on the Visualization of the Mechanism of Asymmetric Cavitation Erosion Induced by Non-spherical Bubble Collapse Shiping Wang		
	ISFV21-1233 BOS measurement using checkered pattern background Masanori Ota				ISFV21-1176 Observation of blast extinguishing process of diffusion flames formed on a wooden cylinder Makiko Fukuda	ISFV21-1212 Experiment and Numerical Simulation of Torque on a Rotating Flat Plate in Uniform Flow Ayumu Mizutani		
18:00-21:00	Banquet							

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9:00-9:30	Keynote IV, Prof. Chih-Yung Huang (Room 1)							
9:40-11:20	b-1-5	b-2-3	b-3-1	b-7-6	a-1-3	a-7-4	c-2-1	
	ISFV21-1032 Skin friction topology on generic objects from 3D particle tracking Luuk Antonie Hendriksen	ISFV21-1042 Refractive Displacement Calculation with GPU-based Acceleration for the BOS Method using Stripe Patterned Background Image Yuki Ogasawara	ISFV21-1005 Infrared thermography measurements and surface flow visualizations of a laminar separation bubble over an airfoil model Luca Riccobene		ISFV21-1103 Three-dimensional flow topology and Reynolds number independence in an urban street canyon Brian Dsouza	ISFV21-1034 Application of optical flow to re-analyze low-resolution motion images of thermophoretic sampling probe used for collecting nanoparticles in reacting flow Jeonghoon Lee	ISFV21-1200 Ensemble PBVR: statistical visualization techniques for ensemble data Takuma Kawamura	
	ISFV21-1065 Visualization of Toroidal Vortex Interacting with Free Surface Yukun Han	ISFV21-1215 Quantitative Density Measurements and Frequency Analysis of Unsteady Flow Field Around the Hayabusa type Re-entry Capsule Model Masato Ikawa	ISFV21-1185 Non-Contact Analysis of Submerged Impinging Jet Boundary Layers: Combining Infrared Thermography and Frustrated Total Internal Reflection Ilya Rodin		ISFV21-1144 A Video-Based Approach to Compressing High-Resolution Flow and Meteorological Data Jean-Baptiste Filippi	ISFV21-1041 Wall jet cooling of flat plates under heat flux and isothermal conditions Nana Nakabo	ISFV21-1174 Application of coarse grid approximation to FlowFit3 Young Jin Jeon	
	ISFV21-1109 Analysis of bubble motion in molten alumina induced by laser irradiation using particle tracking velocimetry (PTV) Daijiro Tokunaga	ISFV21-1024 Shear stress on flat plate due to jet impingement Yo Murata	ISFV21-1190 Experimental Investigation of Convective Heat Transfer Reduction on Sinusoidal Riblets Using Infrared Thermography Antonio Mazzara		ISFV21-1057 Reconstructing Wildfire Front Dynamics from Sparse Observations for Data-Driven Fire Velocity Modeling Jean Baptiste Filippi	ISFV21-1052 Study on baffle material and arrangement to enhance heat transfer performance in phase change material Yun Young Ji	ISFV21-1137 Towards physics-informed convolutional networks for optical flow estimation in particle image velocimetry using self-attention Yuvarajendra Anjaneya Reddy	
	ISFV21-1114 Experimental Analysis of the Spray Dynamics in an Internally Mixed Twin-Fluid Nozzle under Crossflow Conditions Donggyun Nam	ISFV21-1062 Flow Visualization of a Supersonic Rectangular Jet by RSD Revathy RK	ISFV21-1073 Thermographic Visualization of Internal Flows in Shock Tubes Murat Muratov		ISFV21-1231 Near-infrared Imaging Technique For Gaseous Water Vapor In Ambient Air Atmosphere Yuina Abe	ISFV21-1161 Evaluation of CO2 hydrate barrier layer via water inflow to enhance safety in sub-seabed CO2 storage technology Keichi OBATA	ISFV21-1094 3D PTV Tomographic visualization of a triple leapfrogging Pietro Sperotto	
	ISFV21-1125 Visualization Study on Efficiency Improvement of Flow-Induced Vibration Energy Harvesters Amirreza Shahsavari	ISFV21-1260 Advanced Knife-edge-free (KEF) Schlieren imaging: self-aligned, colour visualization, with broadened measurement range SHUBHAM SAXENA	ISFV21-1278 Fabrication of temperature sensitive hollow microcapsules for the mono-color and two-color LIF method Satoshi Someya		ISFV21-1020 Preliminary experiment on dry ice formation during LCO2 transportation for CCS Yoshiaki Tanzawa			

11:30-12:00	Keynote V, Prof. Yoshiyuki Tagawa (Room 1)							
12:00-13:00	Lunch Break							
13:00-13:50	Plenary III, Prof. Dr. Pavlos P. Vlachos (Room 1)							
14:00-15:40	b-1-6	b-2-4	b-3-2	b-7-7	a-1-4	a-7-5	c-2-2	
	ISFV21-1033 3D Mapping and Visualization of Leading-Edge Vortices on a Thin Disk Travis Bouck	ISFV21-1058 Optical flow-based schlieren image velocimetry (OFSIV) Amayu Wakoya Gena	ISFV21-1076 Dispersive Meta-lens Temperature Detector YULUN HE		ISFV21-1087 Measurement of Temperature Distribution Using AI-Based Interpolation of Thermocouple Data Wonwoo Jeon	ISFV21-1036 Flow and heat transfer of pulsed jet impingement at low impingement distances Dickson Bwana Mosiria	ISFV21-1157 Assimilation of temperature and pressure from Lagrangian velocities in turbulent Rayleigh-Bénard convection Robin Karl Barta	
	ISFV21-1067 Visualization of Vortex Structures Around Free-Falling Plates Mahmoud Rasti	ISFV21-1083 Seedless Velocimetry Measurement in High subsonic Sweeping Jet using Shadowgraph Imaging and Wavelet-based Optical Flow Velocimetry Bozhen Lai	ISFV21-1132 Visualization method for lightning strike damage on the surface of a wind turbine blade by using thermochromic materials Shuhei Fujimoto		ISFV21-1158 Numerical Study on the Aerodynamic Effects of Pantograph by Post-processing of visualization data Akshat Dwivedi	ISFV21-1074 Innovative precessing jet nozzle design: a heat transfer analysis Cristina D'Angelo	ISFV21-1238 3D Reconstruction of contra-rotating propellers flow using phase-locked laser doppler velocimetry Fabio Di Felice	
	ISFV21-1113 4D Flow Field Measurements of Rotor Wake Structures at Different Rotational Speeds Sanghwan Park	ISFV21-1142 Visualization of supersonic jet using Background Oriented Schlieren Technique Takehiko HIRANO	ISFV21-1276 Visualization of Surface Temperature Stratification in Self-Pressurized Tank Ayako Yajima		ISFV21-1124 Understanding of characteristic internal flow at pre-condition of diffuser rotating stall onset in vaned diffusers using multi-color oil-film technique Mikio Takahashi	ISFV21-1262 Effect of rotation number on heat transfer characteristics of array impinging jets in confined channel Chayut Nuntadusit	ISFV21-1060 On the modulation of large-scale structures in turbulent boundary layer with wall-pressure effects Sen Li	
	ISFV21-1224 Effect of Badminton Shuttlecock Spin on Aerodynamics Kenichi Nakagawa	ISFV21-1173 Recording shock wave propagation over extended distances Yoav Gichon	ISFV21-1277 Modeling of Pressure Estimation in Self-Pressurized Tank Based on Visualization of Temperature Stratification Ayako Yajima		ISFV21-1241 Geometry Matters: The Effect of Trailing Edge Modifications on Unsteady Flow Osman Giray Oguzman	ISFV21-1186 Impinging jet convective heat transfer enhancement using genetic algorithm control Victor Duro	ISFV21-1075 EnKF-Based Data Assimilation for Optimizing Turbulence Model in Shock Wave/Boundary Layer Interaction Di Peng	
	ISFV21-1234 Experiment on secondary structure of a flat-plate wake at very low Reynolds number Shota Ikejiri	ISFV21-1259 Development of a Quantitative Visualization Technique for Large-scale Experiments by Using Retroreflective Devices Toshiharu Mizukaki			ISFV21-1084 Experimental and numerical analysis of the wake dynamics for an array of parallel inclined plates Sajjad Hosseini			

15:40-16:00	Coffee Break							
16:00-18:00	b-1-7	b-2-5	b-7-8	a-6-1	a-1-5	a-7-6	c-1-1	
	ISFV21-1240 Comparative study of in-cylinder turbulence estimation using ensemble averaging, window averaging, and Fast Fourier Transform Saurabh Singh Chauhan	ISFV21-1165 Design of Background Oriented Schlieren (BOS) with Segmented Panels and Performance Analysis of Airflow Temperature Visualization Yanqiu Huang	ISFV21-1079 Temperature measurement in high-pressure environments using mid-infrared H2O absorption spectrum JIE GAO	ISFV21-1044 Polymer-Induced Modifications in Heat Transport and Flow Structure in Rayleigh-Bénard Convection Ning Wei	ISFV21-1145 Future perspectives on large-scale Lagrangian flow reconstructions using air-filled soap bubbles David E Rival	ISFV21-1229 Visualization study of filament temperature distribution in fused deposition modeling Yusaku Abe	ISFV21-1198 Story flow visualization of the play characters' relationships in the progress of five acts in Shakespeare's plays Miyuki Yamada	
	ISFV21-1250 Holographic particle tracking velocimetry as a ready-to-use API Dai Nakai	ISFV21-1126 Real-time interface reconstruction of a falling liquid film using deflectometry Damien Rigutto	ISFV21-1207 Time-series pressure distribution measurement around Ahmed model at various yaw angles using fast-responding pressure-sensitive paint Masaki Ohmori	ISFV21-1055 Suppression of snow block formation around automobile wheel housing using weather-resistant plasma actuator Hisashi MATSUDA	ISFV21-1118 Visualization of cavitation induced microbubbles and application to heavy metal separation Hyeonwoo Kim	ISFV21-1245 Feasibility of Lens-Corrected Focusing Schlieren Measurements in an Optical Cold-Flow Single Cylinder Engine Tim Philippe Rommelaere	ISFV21-1050 Modal Decomposition of Hypersonic Flows Nicholas Mejia	
	ISFV21-1256 Visualization of the 3-D acoustic streaming flow patterns by digital defocus particle streak velocimetry with synchronized gradient illumination Wei-Hsin Tien	ISFV21-1131 Schlieren visualization for injection gas in plasma wind tunnel Takashi Miyashita	ISFV21-1111 Optical measurement of liquid film thickness and nanoparticle concentration distributions in nanofluid droplet to clarify superspreading wetting Keita Aizawa	ISFV21-1063 Multidirectional Birefringence Measurement of CNC Suspension in Rheometric Shear Flow William Kai Alexander Worby	ISFV21-1135 Optimization of Particle Removal in PECVD Chamber with Pressure, Height, and Wall Shear Stress Han-Sol Lee	ISFV21-1012 Heat transfer characteristics of cold plate with V-shaped ribs for battery thermal management Yuichirou Fuse	ISFV21-1255 SPOD for multi-pulse measurements applied to 3D MP-STB particle tracking data of a high-speed jet in air Philipp Godbersen	
	ISFV21-1265 Prandtl's Flow Visualization Films meet Shake-The-Box Christian Willert	ISFV21-1140 Vapor Shielding Effect in Multi-Droplet Evaporation: Experimental and Numerical Analysis Chang Kyoung Choi	ISFV21-1128 Coupling light field imaging and imaging modeling in a backlight configuration to measure size, shape and 3D location of bubbles and droplets Jean-Bernard Blaisot	ISFV21-1090 Numerical simulation of relationship between statistical dispersion of particle size in suspension suspension and particle behavior Tetsuro Nitta	ISFV21-1160 Flow in a Gearing System under Oil Bath Lubrication Ema Tamura	ISFV21-1030 Flow channel modification for improving water management in polymer electrolyte membrane fuel cell Ji Yeon Kim	ISFV21-1133 Influence of Cross-wind angle and Reynolds number on the aerodynamics of the Generic Cyclist Model Sajad Maleki Dastjerdi	
	ISFV21-1267 An iterative method for ME-PTV image analysis Fulvio Scarano	ISFV21-1168 Experimental visualization of droplet freezing behavior on inclined solid surfaces Yanrong LI		ISFV21-1116 Development of a method for evaluating shear stress exerted by fingertip movements for quantitative evaluation of fluid perception Seigo Nishiwaki			ISFV21-1225 Partitioning Turbulence: A multi-manifold approach for low-dimensional representation of turbulent flows Qihong Lorena Li-Hu	
				ISFV21-1117 Verification of Wall Shear Stress Field in Simulated Blood Visualized by Flow-Induced Birefringence Measurement Method Ryo Umezawa				