

12/19-1 (9:00--10:40)

19-Dec					
Room	Room A (MO Hall)	Room B	Room C	Room D	Room E
Time	OS3-3 (1/7): Chair: Makoto Yamamoto	OS1-1 (1/4): Chair: Hiroshi Maekawa	OS2-1 (1/3): Chair Eiji: Shima	OS3-1 (1/3): Chair: Toshitsugu Tanaka	OS3-4 (1/6): Chair: Tetsuro Tamura
9:00 - 9:20	A01-1: Numerical Simulation of Unsteady 3-D flow through Multi-Stage Turbine Channels with Nonequilibrium Condensation Satoshi MIYAKE et al.	B01-1: URANS and LES computations of waver of secondary flow on channel flows with triangular roughness on side walls Yuichi KOUCHI et al.	C01-1: High-resolution Simulation of Compressible Flow by Volume Penalization Method Ryu KOMATSU et al.	D01-1: Effect of Parcel Models on particles' dispersion in a particle-laden turbulent mixing layer Masaya MUTO et al.	E01-1: Estimations of strong wind on complex terrain using a meteorological model and LES analysis Kota Enoki et al.
9:20 - 9:40	A01-2: Detached Eddy Simulation for Onset Mechanisms of Rotating Stall in an Axial Flow Compressor Rotor Hiroaki KIKUTA et al.	B01-2: Development of a two-equation turbulence model for porous wall flows Yumura Masashi and Kazuhiko Suga	C01-2: Unsteady inviscid flow analysis around the wing using the compressible Building Cube Method Yasutaka NISHIMURA et al.	D01-2: Effect of particle-wall interaction on the damping of gas turbulence in gas-solid disperse flow Yoichi MITO	E01-2: A numerical study on the effects of urbanization on extremely hot days in Tajimi Susumu ITO et al.
9:40 - 10:00	A01-3: Effect of inlet geometries on flow rate and sound quality of centrifugal blower Pham Ngoc Son et al.	B01-3: Transport equations for eddy diffusivity and length scale in turbulence Fujihiro HAMBÄ	C01-3: Efficient implementation of Weighted Essentially Nonoscillatory Scheme on structured meshes Xinrong Su et al.	D01-3: Numerical model development for the motion of large object in gas-fluidized bed. Kyohei HIGASHIDA et al.	E01-3: Numerical Simulation of Hiroto-wind Mika KOBAYASHI and Hiroshi SUITO
10:00 - 10:20	A01-4: Three-dimensional Flow Structure and Unsteady Behavior of Tip Vortex in a Half-Ducted Propeller Fan Kazuya KUSANO et al.	B01-4: Wall-stress model in LES: a method based on the analysis of turbulence length scales near a wall to remove the "log-layer mismatch" Soshi KAWAI and Johan Larsson	C01-4: Metric evaluation for higher-order finite difference scheme with geometric conservation law on three-dimensional moving and deforming mesh Yoshiaki ABE et al.	D01-4: Development of a multi-GPU computing method for capsule suspension Daiki Matsunaga et al.	E01-4: Environmental effect from the wind above the Kyobashi river Takeshi SUGIMURA et al.
10:20 - 10:40	A01-5: Numerical simulation of moving boundary flows around SW-VAWT Masahiro Fujie et al.	B01-5: Evaluations of prediction for thermal field in turbulent boundary layer with adiabatic wall Hirofumi HATTORI et al.	C01-5: Hybrid shock capturing and secondary conservative finite difference methods for moving grid Kazuki Koga et al.	D01-5: Numerical simulation of turbulence evolution and scalar transfer in a wind-driven air-water two-phase flow Ryoichi KUROSE et al.	E01-5: Verification and validation of large-eddy simulation with open-source code for representing coherence structures above urban canopy Yasuo HATTORI et al.

12/19-2 (10:50--12:30)

Room 19-Dec Time	Room A (MO Hall)	Room B	Room C	Room D	Room E
	OS3-3 (2/7): Chair: Masato Furukawa	OS1-1 (2/4): Chair: Hirofumi Hattori	OS2-1 (2/3): Chair: Taku Nonomura	OS3-1 (2/3): Chair: Ryoichi Kurose	OS3-4 (2/6): Chair: Satoru Iizuka
10:50 - 11:10	A02-1: Numerical simulation of flow around modified S-shaped rotor Yuka YOSHIDA et al.	B02-1: Numerical simulations of decaying stratified turbulence Yoshiyuki TSUCHIDA and Hideshi Hanazaki	C02-1: Flow Simulation Around A Wing Using High Order Unstructured Method Yuichiro SUZUKI et al.	D02-1: Effect of Coal Gasification Model on Numerical Simulation of Coal Gasifier Kenji Tanno et al.	E02-1: LES for gas dispersion in a urban canyon Takenobu MICHIOKA et al.
11:10 - 11:30	A02-2: Numerical Prediction of Sand Erosion with Two-Way Coupling Masaya SUZUKI et al.	B02-2: Flow field analysis of oscillating grid turbulence subject to system rotation Masanori NATSUNO et al.	C02-2: Numerical scheme for incompressible and compressible flow based on discrete Helmholtz-decomposition Junya IMAMURA and Takahiko TANAHASHI	D02-2: Large-eddy simulation of turbulent spray combustion in a sub-scale model for aircraft gas turbine engine combustor Ryoichi Kurose et al.	E02-2: LES prediction of unsteady characteristics of gas dispersion in a urban area Tsuyoshi NOZU and Tetsuro Tamura
11:30 - 11:50	A02-3: LES of film cooling flow structure Eiji SAKAI et al.	B02-3: Numerical analysis of turbulent swirling flow in a straight pipe Kunihiro YAMADA et al.	C02-3: On the finite volume artificial compressibility method for incompressible flows. Yuuki Matsumi and Taku Ohwada	D02-3: 3D direct numerical simulation of autoignition process using a reduced chemical kinetic mechanism of n-heptane/air mixtures. Hironari IKUTA et al.	E02-3: Estimation of air ventilation efficiency inside canopy on a simple geometrical array Naoki IKEGAYA et al.
11:50 - 12:10	A02-4: Large-eddy simulation of a buoyant plume past a bluff body - Relationship between entrainment and flow structures- Hitoshi SUTO and Yasuo Hattori	B02-4: Investigation of Density Fluctuations in DNS of a Low Mach Number Turbulent Boundary Layer Hirokazu Kajima and Takashi OHTA	C02-4: New Time Implicit Integration Method for Compressible CFD in Low Mach number Eiji SHIMA	D02-4: Numerical Study on Ignition of Woody Biomass Fuel in a Combustion Furnace Daisuke Kina and Kenji Yamamoto	E02-4: Higher-accurate prediction of wind pressure on high-rise building - Introduction of an unstructured grid - Takeshi Kishida et al.
12:10 - 12:30	A02-5: Numerical Analysis of Tangentially Injected Flow for Hybrid Rocket Engine Using Unstructured Method Takaya KODA et al.	B02-5: Evaluation of the Spatial Scales in Wall Turbulence of Surfactant Solution with DNS Yuto USUI and Takashi OHTA	C02-5: On a wobble sensor for CFD of incompressible flows Yohei MORINISHI	D02-5: Development of RCCE method for reacting flow simulation Mituso KOSHI et al.	E02-5: Flow Characteristics around High-rise Building Hideyuki TANAKA et al.

12/19-3 (13:40--15:20)

Room 19-Dec Time	Room A (MO Hall)	Room B	Room C	Room D	Room E
	OS3-3 (3/7): Chair: Shigeru Obayashi	OS3-4 (3/6): Chair: Takenobu Michioka	OS2-1 (3/3): Chair: Youhei Morinishi	OS3-1 (3/3): Chair: Takehiro Yamamoto	OS2-3 (1/3): Chair: Takaji Inamuro
13:40 - 14:00	A03-1: Aerodynamic Characteristics Study of a Quasi-Waverider using Viscous Simulations Satoshi Kotoura et al.	B03-1: LES of local severe suction on side face of a three-dimensional square cylinder Yoshiyuki ONO and Tetsuro Tamura	C03-1: A domain embedding method for incompressible viscous flow using digital color image Hideyuki KOSHIGOE et al.	D03-1: Study on turbulent drag-reduction mechanism by BDS-DNS based on the dumbbell model Kazuma Matsumoto et al.	E03-1: Study of Lattice Boltzmann Method with Solution Adaptive Octree Mesh Hiroshi Ito
14:00 - 14:20	A03-2: Hybrid LES/RANS simulation of transonic flowfield around rocket faring Seiji TSUTSUMI et al.	B03-2: Tsunami Load Simulation by improved VOF Technique Minoru SAKATA et al.	C03-2: Fully adaptive simulation of three-dimensional turbulent flow using biorthogonal wavelets Yuta MORISHIMA et al.	D03-2: Mesoscale computational model for flow analysis of polymer-clay nanocomposites Takehiro YAMAMOTO et al.	E03-2: Numerical simulation of a liquid flow for direct cooling of an electronic device using a lattice Boltzmann method Naoki TAKADA et al.
14:20 - 14:40	A03-3: Effect of Turbulence Models on Transonic Aerodynamic Characteristics at High Incidence Manabu HISHIDA et al.	B03-3: Numerical Simulation of Sand Transfer in Desert and its Suppression -Effect of Forces Acting on Particles- Kazuto Matsui et al.	C03-3: Numerical study of mixing of fluids in the driven cavity Reima IWATSU et al.	D03-3: Application of Singular Finite Element to Die Swell Flow Analysis of Viscoelastic Fluid Tomoaki KATSURAGAWA et al.	E03-3: Transmission-reflection coefficient in the lattice Boltzmann method Hiroaki YOSHIDA et al.
14:40 - 15:00	A03-4: Adaptive simulation of turbulence flow by using data assimilation Hiroshi KATO et al.	B03-4: Modeling of Snowdrift around Building - Validation of drifting snow model based on the comparison with field measurement around a building - Tsubasa Okaze et al.	C03-4: Unsteady flows in the driven cavity with aspect ratio in a range $0.8 \leq A \leq 1.5$ Reima IWATSU et al.	D03-4: Numerical Analysis of Molecular Orientation Field in Liquid Crystalline Flows Tomohiro TSUJI et al.	E03-4: Lattice Boltzmann method combined with smoothed profile method for multiphase flow at different wettability conditions Takeshi SETA
15:00 - 15:20	A03-5: 講演中止/cancelled	B03-5: Analysis of turbulent statistics in urban canopy layer using Large-Eddy Simulation Yasuhiko KOGA et al.		D03-5: Reynolds number dependence of 3D cavity with different cross-section aspect ratios steady flows Chikara OTA et al.	E03-5: Lattice Boltzmann Simulation of Motion of a Body in Curved Square Pipe Flows Masato YOSHINO et al.

12/19-4 (15:30--17:10)

Room 19-Dec Time	Room A (MO Hall) OS3-3 (4/7): Chair: Mitsuhiro Murayama	Room B OS3-4 (4/6): Chair: Akashi Mochida	Room C OS2-2 (1/3): Chair: Hidetoshi Nishida	Room D OS3-2 (1/5): Chair: Shigeo Wada	Room E OS2-3 (2/3): Chair: Masato Yoshino
15:30 - 15:50	A04-1: Analysis of three-dimensional effects on flapping wing aerodynamics associated with a time-averaged lift maximized wing motion Seiya UGAJIN et al.	B04-1: Modelling of canopy flow of the various roughness arrays —(Part 2) Method to determine the model coefficients applicable to various aspect ratios and complexity of obstacles— Azusa ONO et al.	C04-1: A characteristic Galerkin scheme using B-spline basis functions for incompressible flows Akira MARUOKA and Takahiro Yamada	D04-1: Molecular analysis of primary platelet aggregation Seiji SHIOZAKI et al.	E04-1: Simulations of flows with moving boundaries by a higher-order immersed boundary method Kosuke SUZUKI and Takaji INAMURO
15:50 - 16:10	A04-2: Numerical analysis around the flapping wings for vertical takeoff and landing aircraft Takeshi Sumita et al.	B04-2: A Large Scale Simulation of CFD and its Potentialities PHAM VAN PHUC et al.	C04-2: A study of three dimensional free surface flow simulation by SLG characteristic finite element method Hiroshi OKUMURA et al.	D04-2: Numerical analysis of blood flow including multiple red blood cells in capillary vessel Satoshi II et al.	E04-2: Numerical simulations of the behavior of a droplet moving in a constricted tube by the lattice Boltzmann method Takeshi KOZUMA and Takaji INAMURO
16:10 - 16:30	A04-3: Aerodynamic simulation around a glider advancing, descending and swerving Hiroki NAKAJIMA et al.	B04-3: LES of turbulent boundary layer for inflow generation using stereo PIV measurement data by OpenFOAM Yusuke MARUYAMA et al.	C04-3: Analysis of milk crown formation by using the adaptive mesh refinement of OpenFOAM Daisuke Tomihara and Youhei Takagi	D04-3: Boundary Conditions and Turbulent Models in Computational Hemodynamics of the Congenital Aortic Arch Anomaly. Keiichi Itatani et al.	E04-3: Application of the multi-block lattice Boltzmann method to moving boundary problems Yutaka Murakumo and Takaji INAMURO
16:30 - 16:50	A04-4: Effects of airfoil shape on aerodynamic performance of fixed wings at low Reynolds numbers Hikaru AONO et al.	B04-4: Investigations of artificial generation methods of inflow turbulence for LES based on the Cholesky decomposition of Reynolds stresses Akihiko KONDO et al.	C04-4: A Procedure for Setting Boundary Condition in Applying Finite Difference Method to Complicated Domains Tsugio FUKUCHI	D04-4: Validation of Boundary Conditions for CFD Simulations on Cerebral Aneurysm Shinobu Otsuka et al.	E04-4: Numerical simulation of a bubbly jet by Vortex in Cell method Tomomi Uchiyama et al.
16:50 - 17:10	A04-5: Analysis on Stability Derivatives of Standard Dynamics Model with Moving Mesh Method Mikihito Hashizume et al.	B04-5: Hybrid RANS/LES simulation of wind flow over urban area. Part 2. Generation of inflow turbulence by Divergence-free synthetic eddy method. Hiroto KATAOKA and Tetsuro TAMURA	C04-5: Improvement in prediction accuracy of Cartesian grid method for incompressible flows Norikazu SATO et al.	D04-5: Coupled Simulation of Cerebral Aneurysm using Equally-spaced Cartesian Mesh Kazuki Mizuta et al.	E04-5: Pressure Calculation Procedure for Vortex in Cell Method Tomohiro DEGAWA

12/19-5 (17:20--19:00)

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19-Dec	OS3-3 (5/7): Chair: Atsushi Hashimoto	OS1-2 (1/5): Chair: Shintaro Takeuchi	OS2-2 (2/3): Chair: Masashi Yamakawa	OS3-2 (2/5): Chair: Satoshi Ii	OS2-3 (3/3): Chair: Tomomi Uchiyama
Time					
17:20 - 17:40	A05-1: Relationship between instantaneous flow-fields and time-averaged aerodynamic characteristics on the separation control over an airfoil with DBD plasma actuator Kengo ASADA et al.	B05-1: Numerical simulation on effects of surfactant on gas-liquid interface Fuminori FUJISAWA et al.	C05-1: Numerical simulation of flow around a moving body using seamless immersed boundary method Kenji SEKI and Hidetoshi NISHIDA	D05-1: Coupling Model of Incompressible Fluid and Elastic Structure by Three-dimensional SPH Method Shuhei TADA et al.	E05-1: Fast calculation of the vortex method by GPU Yoshifumi Ogami
17:40 - 18:00	A05-2: LES Analysis for the Unsteady Aerodynamic Response of Road Vehicle in Sinusoidal Motion Jun IKEDA et al.	B05-2: Numerical study of effect of temperature dependency of surface tension and contact angle on drop actuation by front-tracking simulations Yasufumi YAMAMOTO et al.	C05-2: Numerical simulation of blood flow using curvilinear seamless immersed boundary method Kohei KISHIDA and Hidetoshi NISHIDA	D05-2: Study on autoregulation of blood flow in the circle of Willis Yusuke UENO et al.	E05-2: SPH Simulations of Binary Collision between Liquid Droplet with Different Surface Tension and Interfacial Tension Yasutaka YAMAGUCHI et al.
18:00 - 18:20	A05-3: Numerical Study on the Effect of Dimple in the Flow Field around Wheel Yuta KIMURA et al.	B05-3: Breakup Modes in Laminar Capillary Compound Jets in a Co-flowing Ambient Fluid Truong V. Vu et al.	C05-3: Modified body-force type immersed boundary method Tomoya Wakamatsu et al.	D05-3: Eulerian fluid-structure interaction study using a level set function Kohei KABESE et al.	E05-3: Liquid Jet Breakup Simulation by Three-Dimensional Incompressible SPH Method Tadahiro TAKASHIMA et al.
18:20 - 18:40	A05-4: Aerodynamic simulation of flow around moving multi high-speed vehicle using Moving Computational Domain Method Yutaka Okamoto and Kenichi MATSUNO	B05-4: Numerical Study of fluid force and rotational behaviour of a solid particle in curved flows. Toshiaki Fukada et al.	C05-4: A new methodology for arbitrary boundary representation with dummy-cell technique on IBM based BCM and its validation Keiji Onishi and Kazuhiro NAKAHASHI	D05-4: Fluid-Structure Interaction Simulations for Gas Exchange in the Human Lung Yasuhiro ISHIMINE et al.	E05-4: Pressure Stabilization Technique in Moving Particle Semi-implicit Method and It's Application to Liquid Ring Pump with Rotating Impeller Shunsuke OBARA et al.
18:40 - 19:00	A05-5: Aerodynamic simulation of flow around bigscooter passing through a s-curve Yusuke Tada and Kenichi MATSUNO	B05-5: Proposal for a numerical Simulation model of gas-solid-two-phase flows entail the entrainment of fine particles. Modeling of powder snow avalanches using the k-ε turbulence model Toshihiko Eto et al.	C05-5: A numerical analysis of the interaction between the rhythmic segmentation in the small intestine and the bolus using the immersed boundary method Takanobu MATSUI and Minoru SHIRAZAKI	D05-5: Flight simulation of a two-dimensional flapping wing by the immersed boundary-lattice Boltzmann method Yusuke KIMURA and Takaji Inamura	

12/20-1 (9:00--10:40)

20-Dec					
Room	Room A (MO Hall)	Room B	Room C	Room D	Room E
Time	OS3-2 (3/5): Chair: Kazuyasu Sugiyama	OS1-1 (3/4): Chair: Takeshi Kataoka	OS2-2 (3/3): Chair: Minoru Shirazaki	OS4-2: Chair: Kenji Ono	Japan-Korea CFD Workshop JKWS (1/3): Opening & Multiphysics Chair: T. Kajishima (Osaka Univ.)
9:00 - 9:20	A06-1: Development of a numerical model for laser-induced liquid jet under the influence of wall elasticity Daiki Ishikawa et al.	B06-1: Identification and characterization of large-scale turbulence structures in square-duct flow Tatsuya NAKATSUJI et al.	C06-1: Wall Boundary Treatment for Compressible Inviscid Flow Computations on Cartesian Mesh Kazuhiro Nakahashi	D06-1: Parallel computation of a block tridiagonal matrix scheme Yusuke Kondo et al.	9:20-9:35 Opening Address: Shinsuke Katoh(President of JSFM, University of Tokyo) and Oh Joon Kwon(President of KSCFE, KAIST)
9:20 - 9:40	A06-2: Numerical simulation of water jet from manhole Sairi Kageyama and Tetsuya Kawamura	B06-2: DNS of vector-controlled freejets under the rotational mode Noritaka Shibata et al.	C06-2: Anisotropic Mesh Adaptation Using Refinement/Derefinement for Improvement of Sonic Boom Prediction Yusuke OKI et al.	D06-2: Numerical simulation of the recorder head-part Satoshi ITO	9:35-9:50 Overview of 25th Symposium on Computational Fluid Dynamics Takeo Kajishima(Osaka University)
9:40 - 10:00	A06-4: Numerical Simulation of Ultrasound Wave Propagation in the Fluid with Bubbles Nobuo Tsurumi et al.	B06-3: Study on Structure Extraction of Round Jets using DMD Method Hiroshi KATO et al.	C06-3: Numerical simulation for a compressible flow with combining computational domains Daiki Takekawa et al.	D06-3: Numerical Simulation by Overset Grid Based on Building-Cube Method and Body-Fitted Coordinate System Shun Takahashi and Norio Arai	9:50-10:15 E06-1: Fluid-Structure Interaction Approach on Hemodynamics of Cerebral Arteries
10:00 - 10:20	A06-5: Numerical analysis of flow around maple seeds using a volume penalization method Yoichi SAWAMURA and Takashi ISHIHARA	B06-4: The effect of upstream disturbance on Low-frequency noise from a turbulent cylindrical boundary layer Daisuke WATANABE et al.	C06-4: A numerical study with an all-speed Lagrange-Remap method Katsuhisa SUZUKI and Mingyu SUN	D06-4: Simulation of Deflagration-to-Detonation Transition using an Embedded Boundary Method on AMR Mesh Takanobu Ogawa	Sang Hyuk Lee(Sogang Univ.),Seongwon Kang(Sogang Univ.),Nahmkeon Hur(Sogang Univ.)
10:20 - 10:40	A06-3: 講演中止/cancelled	B06-5: Transition mechanism of Kelvin-Helmholtz waves Yuki Kuroki and Mikio Nakanishi		D06-5: A Large Scale Visualization of Space Plasma via Distributed Processing Ken T. MURATA et al.	10:15-10:40 E06-2: Rupture process of red blood cell membranes: molecular dynamics simulation Kenichiro Koshiyama(Osaka University),Shigeo Wada(Osaka University)

12/20-2 (10:50--12:30)

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20-Dec	OS3-2 (4/5): Chair: Shu TAKAGI	OS1-1 (4/4): Chair: Fujihiro Hanba	OS1-2 (2/5): Chair: Hiroyuki Takahira	OS4-3 (1/2): Chair: Takashi WATANABE	Japan-Korea CFD Workshop JKWS (2/3): Unsteady flow and Turbulence Chair: O. J. Kwon (KAIST)
10:50 - 11:10	A07-1: Effect of incisors position on sound source production of sibilant /s/ Kazunori Nozaki et al.	B07-1: Linear instability of shallow-water periodic waves Takeshi KATAOKA	C07-1: Numerical Simulation of Film Condensation Introducing Phase Boundary Conditions Based on the Kinetic Theory of Gases Tsubasa Ohshima and Takeo KAJISHIMA	D07-1: Development of GUI Software to Make Volume Visualization Contents for Google Earth Shintaro KAWAHARA et al.	10:50-11:15 E07-1: On the Study of Aerodynamic Performance of Magnus Wind Turbines with Spiral Fins Akiyoshi Iida(Toyohashi U. of Tech.),Chisachi Kato(U. of Tokyo),Takashi Ito(JAXA), Yoshihiko Doi(Toyota Boshoku),Yoshinari Miura(Mecaro)
11:10 - 11:30	A07-2: Numerical Study of a Vibration Excited by an Interaction between Fluid and a Soft Structure Mimicking a Vocal Cord Suguru MIYAUCHI et al.	B07-2: Numerical study on supersonic combustion using an asymmetric wedge strut with the trailing edge injector Toshihiko HIEJIMA et al.	C07-2: Numerical Analysis of Bubble Collapses with Phase Transition at the Gas-Liquid Interface by Using the Ghost Fluid Method Yoshinori Jinbo and Hiroyuki Takahira	D07-2: Development of a pre- and post-processing system for unstructured grid using VR technology Kazuo Kashiya et al.	11:15-11:40 E07-2: Numerical Investigation on Aerodynamic Performance of Airfoils designed for Advanced Rotor Blades Sang Eon Jeon(Konkuk Univ.),Jeong Hwan Sa(Konkuk Univ.),Chang Joo Kim(Konkuk Univ.),Soo Hyung Park(Konkuk Univ.),Seung Bum Kim(KARI),Seung Ho Kim(KARI),Ki Hoon Chung(KARI)
11:30 - 11:50	A07-3: Full Eulerian fluid-structure interaction simulations using artificial compressibility method with adaptive parameters Kazuyasu SUGIYAMA et al.	B07-3: On the breakdown of supersonic streamwise vortices with a double annular vorticity of opposite signs Toshihiko HIEJIMA	C07-3: Numerical Simulation of Strongly Unsteady Secondary Cavitation Induced by Underwater Electric Discharge Taketoshi KOITA and Mingyu SUN	D07-3: Visualization for Ocean Global Circulation Model via Multidimensional Transfer Function and Multivariate Analysis Daisuke MATSUOKA et al.	11:40-12:05 E07-3: Numerical Study About Unsteady Flows Around Horizontal Axis Wind Turbines Oh Joon Kwon(KAIST)
11:50 - 12:10	A07-4: Computational aeroacoustics by using compact finite difference with the skew-symmetric form of convection Kota TAKEICHI et al.	B07-4: Study of Hierarchical Vortex Motions in Turbulence Hiroshige OKAZAKI et al.	C07-4: Numerical Analysis of Bubbly Flow Considering Bubble Inception with Quasi-Linearized Rayleigh-Plesset Equation in a Venturi Tube Koji MARUTANI and Takeo KAJISHIMA	D07-4: Segmentation of Flow Field Data Using SOM Susumu SHIRAYAMA	12:05-12:30 E07-4: Multi-Physics CFD Simulations in Advanced Jet Engine Makoto Yamamoto(Tokyo University of Science),Masaya Suzuki(Tokyo University of Science)
12:10 - 12:30	A07-5: High-accuracy prediction of acoustic field around a rectangular cylinder in a uniform flow by Lighthill equation Hiroshi YOKOYAMA and Akiyoshi IIDA	B07-5: The structure of vorticity in three-dimensional turbulent Rayleigh-Benard convection Kunio Hoshino et al.	C07-5: Modeling of vortex cavitation based on axisymmetric Navier-Stokes equation Kei ITO et al.		

12/20-3 (13:40--15:20)

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20-Dec	OS3-2 (5/5): Chair: Akiyoshi Iida	OS3-6: Chair: Keiko Takahashi	OS1-2 (3/5): Chair: Toshiharu Muramatsu	OS4-3 (2/2): Chair: Susumu SHIRAYAMA	Japan-Korea CFD Workshop JKWS (3/3): Aerodynamics and Turbomachinery Chair: B. R. Shin (Changwon Natl. U.)
13:40 - 14:00	A08-1: The Estimation of Noise Shielding Effect using Linearized Euler Equation on Block-Structured Cartesian Mesh Yuuma FUKUSHIMA et al.	B08-1: Gradient wind balance in tropical cyclones in a non-hydrostatic global circulation model Yoshiaki MIYAMOTO et al.	C08-1: Numerical Simulation of Laser Cutting for Thick Steel Plate Kenta SUGIHARA et al.	D08-1: Detection of peculiar action by flow line history based on optical flow Kenji KANAI and Takashi WATANABE	13:40-14:05 E08-1: Direct Numerical Simulation of Turbulent Flow and Mass Transfer around a Rotating Circular Cylinder Dong-Hyeog Yoon(Inha University), Kyung-Soo Yang(Inha University), Klaus Bremhorst(The University of Queensland)
14:00 - 14:20	A08-2: Aeroacoustic Simulation of Landing Gear by Building Cube Method Deguchi Akihito et al.	B08-2: Simulation of Radioactive Drift from Fukushima Nuclear Plants Choi Young-Jin et al.	C08-2: Numerical simulation for phenomenological evaluation of laser welding processes Susumu YAMASHITA et al.	D08-2: Visualization of Time Scales of the Couette Flow and Taylor Vortex Takashi WATANABE	14:05-14:30 E08-2: Generation of a jet by a sphere moving vertically in stratified fluid Hideshi Hanazaki(Kyoto University)
14:20 - 14:40	A08-3: Toward better far-field prediction using the FW-H equation in aeronautical applications. Tomoaki IKEDA et al.	B08-3: Numerical Simulation of Extreme Weather Over Complex Terrains at 100-m Resolution Tetsuya TAKEMI	C08-3: Crystal growth simulation of InGaSb semiconductor alloy Youhei TAKAGI et al.	D08-3: Transition of the flow form by the axial gap around the rotating disk in cylindrical casing Shohei FUJISAWA and Takashi WATANABE	14:30-14:55 E08-3: Study on Aircraft Surface Data Generation for CFD Analysis by using CATIA Automation Byoungsoo Kim(Chungnam National University), Suk Chang(Chungnam National University)
14:40 - 15:00	A08-4: Numerical Study on the Reduction of Discrete Frequency Noise Trailing Edge Serration of Airfoil Changhwa HAN et al.		C08-4: Numerical Study of Flowfield in Electromagnetic Stirrer for Slurry of Al-Si Alloy Keisuke HOJO et al.		14:55-15:20 E08-4: Multi-scale Multi-physics Simulations for Laser Plasma Hideo Nagatomo(Osaka University), Tomoyuki Johzaki (Osaka University), Atsushi Sunahara(Osaka University), Hitoshi Sakagami (Osaka University), Kunioki Mima(Osaka University)
15:00 - 15:20	A08-5: Large eddy simulation for broadband noise prediction generated from square cylinder on attack angle of 0 degree. Naoki MASUDA et al.		C08-5: Effect of Double-Diffusive Convection to the Solid Layer Growth Masanori UEDA et al.		

12/20-4 (15:40-20:00)

Room 20-Dec Time	Room A (MO Hall)	Room B	Room C	Room D	RoomE
15:40 - 16:40	Plenary Lecture 1 Chair: Takeo KAJISHIMA (Osaka U) Nobuyuki SATOFUKA (Emer. Prof., Kyoto Inst. of Tech./U. of Shiga Pref.) "Computational Fluid Dynamics: Past and Present"	N/A	N/A	N/A	N/A
16:40 - 17:40	Plenary Lecture 2 Chair: Takeru YANO (Osaka Univ.) Kazuo AOKI (Kyoto Univ.) "Numerical analysis of low-pressure gas flows induced by temperature fields"	N/A	N/A	N/A	N/A
18:00 - 20:00	Banquet at Cafeteria TAKUMI (カフェテリア 匠) Best CFD Graphics Award Ceremony				

12/21-1 (9:00-10:40)

21-Dec					
Room	Room A (MO Hall)	Room B	Room C	Room D	Room E
Time	OS3-3 (6/7): Chair: Takanori HINO	OS1-4 (1/3): Chair: Shigeru Yonemura	OS3-5 (1/3): Chair: Satoru Yamamoto	OS4-1: Chair: Kentaro Sano	OS1-3 (1/2): Chair: Nobumitsu Yokoi
9:00 - 9:20	A09-1: Flow comparisons of wall function models around a appendage attached to flat plate Kunihide OHASHI and Takanori HINO	B09-1: DSMC Calculation on Supersonic Jets Interaction Masaru USAMI et al.	C10-1: Numerical Simulation on Film Cooling Air from Multi-Holes Ken-ichi Funazaki	D09-1: A GPU acceleration for thermal flow by using Coupled Lattice BGK model Liang SUN	E09-1: Direct Numerical Simulation for MHD Homogeneous Shear Turbulence Under System Rotation Akito SUZUKI and Masayoshi OKAMOTO
9:20 - 9:40	A09-2: 講演中止/cancelled	B09-2: DSMC Calculation on Vortex Shedding behind a Circular Taper Cylinder Masaru USAMI et al.	C09-2: Numerical Simulation of Unsteady 3-D Full-arc Flows in Partial Admission Stator-Rotor Cascade Shinji TAKADA et al.	D09-2: Multi-GPU acceleration for large-scale computation of passive scalar particles Satori Tsuzuki et al.	E09-2: Numerical Investigation for MHD Homogeneous Decaying Turbulence with Uniform Magnetic Field Masayoshi OKAMOTO and Hodaka KOBAYASHI
9:40 - 10:00	A09-3: High-order Interpolation in Overset Grid Using Spline Functions Yoshiaki KODAMA and Kunihide OHASHI	B09-3: Vacuum formation behind the expansion wave in a piston motion problem Satoshi TAGUCHI and Shigeru TAKATA	C09-3: Wind farm layout optimization system using GPU accelerators Tomoya SUZUKI and Feng XIAO	D09-4: Implementation and evaluation of VSAM3 based two-phase flow simulation under multiple GPU environment. Koki TAJIMA et al.	E09-3: Effects of Mass Flow on Performance of High Frequency Inductively Coupled Plasma Thruster. Kohei WADA et al.
10:00 - 10:20	A09-4: Aerodynamic analysis of rigid wingsails for a next generation wind driven vessel Takuji NAKASHIMA et al.	B09-4: Numerical Analysis of Nanoscale Gaseous Flow in Complicated Flow Channel in Porous Media Tomoya OSHIMA et al.	C09-4: Performance Improvement of Wind-Lens Turbine Using Three-Dimensional Aerodynamic Design Masato Furukawa et al.	D09-3: 講演中止/cancelled	E09-4: Three-dimensional Numerical Simulation of MHD Generator with Circular-arc Electrodes Naoya YOSHIMI et al.
10:20 - 10:40	A09-5: Three Dimensional Flow around Train Body in Lateral Wind Miwa Tamano and Tetsuya Kawamura		C09-5: Numerical Study on Tip Leakage Vortex Control by Jet Injection Ryota NAKAMURA et al.		E09-5: Transitional flows in liquid metal MHD power generator with non-uniform magnetic field Hiromichi KOBAYASHI et al.

12/21-2 (10:50-12:30)

Room	Room A (MO Hall)	Room B	Room C	Room D	Room E
21-Dec	OS3-3 (7/7): Chair: Masashi Kashiwagi	OS1-4 (2/3): Chair: Yasutaka Yamaguchi	OS3-5 (2/3): Chair: Makoto Yamamoto	OS2-4 (1/3): Chair: Koji Morinishi	OS1-3 (2/2): Chair: Naofumi Ohnishi
Time					
10:50 - 11:10	A10-1: Computation of viscous flows around a ship hull with surface roughness Takanori Hino	B10-1: A Molecular Dynamics Study on the Influences of Nanostructure Geometry on the Liquid Molecular Behavior at a Liquid-Solid Interface Takahito Kamiya et al.	C09-1: Numerical Simulation on Reforming Process of Tar contained in Biogas formed in Biomass Gasification Electric Power Generation System by Detailed Chemical Kinetics Fumiteru AKAMATSU et al.	D10-1: Space-Time FSI Computation of Parachute Disreefing Kenji TAKIZAWA et al.	E10-1: Numerical Analysis of Blast-Wave Energy Conversion Processes in Laser Propulsion Atsushi NAGANO et al.
11:10 - 11:30	A10-2: Free Surface Flow Computations of Box-Shaped Ships by an Unstructured Navier-Stokes Solver Tin Tin Htwe Nang and Takanori Hino	B10-2: A Molecular Dynamics Study on the Effects of Nanoparticle Layers on the Thermal Resistances at the Liquid-Solid Interface Takuya MATSUMOTO and Masahiko SHIBAHARA	C10-2: Numerical simulation of supercritical-fluid flows through turbine cascade channels WANG NING et al.	D10-2: Space-Time Formulation of Fully-Coupled Fluid-Object Interaction Kenji TAKIZAWA et al.	E10-2: Particle Simulations for Plasma-Plasma Intersecting Experiments Seigo MISAKI et al.
11:30 - 11:50	A10-3: 2-D Numerical Simulation of Impact of Elastic Body on Free Surface Changhong Hu and Kangping Liao	B10-3: Effects of the Local Non-equilibrium Behaviors Caused by Nanostructures on the Energy Transport at a Liquid-Solid Interface Sho MURAKAMI et al.	C10-3: Numerical Modeling of Ice Accretion Phenomena in Rotational Coordinate System Taiki MATSUURA et al.	D10-3: Simulation of Incompressible Flow around a Falling Sphere in a Long Pipe using Moving Computational Domain Method Shinichi ASAO and Kenichi MATSUNO	E10-3: Simulation of Laser-produced Plasmas Atsushi SUNAHARA
11:50 - 12:10	A10-4: Analysis of Non-Linear/Large-Amplitude Motions of Submerged and Floating Bodies by URANS Simulation with Moving Grid Technique Nobuaki Sakamoto	B10-4: Molecular Dynamics Simulation of Heat Conduction in Saturated Liquids of Alkanes Using an All-Atom Model Taku OHARA et al.	C10-4: Development of Numerical Simulator for Polymer Electrolyte Fuel Cell Nobuyuki Oshima et al.	D10-4: Error Reduction Technique for the Volume Penalization Method Wakana NAKANO et al.	E10-4: Self-generated magnetic field in laser plasma Hideo NAGATOMO et al.
12:10 - 12:30	A10-5: Numerical Simulation of Compressible Flow around a Train Passing through a Tunnel using Regularized Lattice Boltzmann Method Naoki KANAYA et al	B10-5: An Evaluation of the Thermal Properties of Oxygen/Hydrogen Mixture System around Its Critical Points Masato TOMI et al.	C10-5: Numerical Simulation on Ignition Process of Hydrogen-Air Premixture by Smoothed Particle Hydrodynamics Fumiteru AKAMATSU et al.	D10-5: A simple Immersed-Boundary method by improvement of finite difference on Fluid-Structure boundary Katsumi SHIMOMURA and Yoichi OGATA	E10-5: Computational method of flow with anisotropic radiation for low-density plasma Naofumi OHNISHI and Atsushi SUNAHARA

12/21-3 (13:40--15:20)

Room	Room A (MO Hall)	Room B	Room C	Room D	Room E
21-Dec	OS1-2 (4/5): Chair: Hideyo Negishi	OS1-4 (3/3): Chair: Gota Kikugawa	OS3-5 (3/3): Chair: Fumiteru Akamatsu	OS2-4 (2/3): Chair: Yoichi Ogata	OS3-4 (5/6): Chair: Satoru Ushijima
Time					
13:40 - 14:00	A11-1: Level-set method and phase field approach for the interface of conservative system Nobuyuki OSHIMA	B11-1: Molecular Dynamic Analysis on the Reduction of Shear Stress of Water Flow due to Alcohol Addition Yasutaka YAMAGUCHI et al.	C11-1: Implementation of Phase Change Model for Two Phase Flow with High Density Ratio Yutaka UMEMURA et al.	D11-1: Conservative Discretization for the Finite Element Analyses of the Two-Dimensional Unsteady Diffusion Changcheng SHAO and Toshiya IINUMA	E11-1: Evaluation of gas-liquid interface area of rising bubbles by multiphase incompressible-flow solver Susumu FUJIOKA and Satoru Ushijima
14:00 - 14:20	A11-2: Numerical Study of the Fluid Force on an Object in the Vicinity of a Free Surface by Means of VOF Method Formulated on a Body-fitted Coordinate Kosuke SHIMIZU et al	B11-2: Molecular Dynamic Analysis on Wetting Behavior of Water-Alcohol Mixture Droplet on a Solid Surface Yasutaka YAMAGUCHI et al.	C11-2: Numerical Simulation of Supercritical-fluid Flows with Chemical Reaction in Supercritical Hydrothermal Synthesis Reactor Takashi FURUSAWA and Satoru YAMAMOTO	D11-2: Application of compact schemes and third-order symplectic integration methods to the wave equation with moving media Reima Iwatsu et al.	E11-2: Tsunami simulation of Hakata bay by finite element method Hiroshi DAN and Hiroshi KANAYAMA
14:20 - 14:40	A11-3: A numerical method for pressure/velocity/temperature equilibriums at interfaces in compressible flows using high-order compact differencing schemes Hiroshi TERASHIMA et al.	B11-3: Molecular Dynamics Study of Equilibrium State of Nano-liquid Column Taichi MURAKAMI and Takeru YANO	C11-3: Numerical Simulation of Supersonic Flow with Nonequilibrium Condensation in RESS-process Ryo Anan et al.	D11-3: Numerical analysis of the drag and total pressure loss of the channel having a orifice Hisashi YAMAZAKI et al.	E11-3: Numerical Simulation of the pH Distribution in Lake Inawashiro(2) Tsukuru Murata and Haruo Terasaka
14:40 - 15:00	A11-4: Numerical simulation of multiphase flows with secondary conservative finite difference scheme Kyohei YAMAMOTO et al.	B11-4: Molecular dynamics simulations of water droplets in graphite micro pores Akinori FUKUSHIMA et al.		D11-4: Development of an interface capturing method on an unstructured mesh Satoshi II and Feng Xiao	E11-4: Numerical study on the effects of climate change on water quality in deep lakes Daisuke KITAZAWA
15:00 - 15:20		B11-5: Molecular Dynamics Study of Proton and Water Transport within Polyelectrolyte Membrane in PEFC Takuya MABUCHI and Takashi TOKUMASU		D11-5: Multi-moment constrained high order flux reconstruction Feng Xiao et al.	E11-5: Numerical simulation of wave-induced motion of floating sloping-top caisson using three-dimensional coupled fluid-structure-sediment interaction model Tomoaki NAKAMURA et al

12/21-4 (15:30--17:10)

Room	Room A (MO Hall)	Room B	Room C	Room D	Room E
21-Dec	OS1-2 (5/5): Chair: Nobuyuki Tsubo	GS (1/2): Chair: Hideo Nagatomo	GS (2/2): Chair: Yohei TAKAGI	OS2-4 (3/3): Chair: Feng Xiao	OS3-4 (6/6): Chair: Susumu Fujioka
Time					
15:30 - 15:50	A12-1: The Dependence of Reaction Models for CH ₄ /O ₂ Detonation Calculations Youhi Morii et al.	B12-1: Analysis for Flight Dynamics of Laser Propulsion Vehicle with CFD Masayuki TAKAHASHI and Naofumi Ohnishi	C12-1: Numerical simulation of heat convection in rotating concentric cylinder Kanako IKEDA and Tetsuya KAWAMURA	D12-1: Convergence property of the Poisson equation solvers for two-phase fluid flows Junya ONISHI and Kenji ONO	E12-1: Parallel Computation of Free-Surface Flow through Porous Media with Multiphase Model Haruka YAMASHITA and Satoru Ushijima
15:50 - 16:10	A12-2: Numerical Simulations on Detonations Using Weighted Nonlinear Compact Scheme Nobuyuki Tsuboi et al.	B12-3: Numerical Modeling of Flame Emission in Hydrogen-Oxygen Flames Shingo MATSUYAMA	C12-2: A Numerical Method for Thermal Convection in Some Complicated Shaped Long Pipes Anna KUWANA and Tetsuya KAWAMURA	D12-2: Study on Highly Efficient Numerical Simulation of Flow in High Reynolds Number Region using Quasie-Equilibrium Lattice Boltzmann Model Takahiro YASUDA et al.	E12-2: The numerical simulation of flood flow in Tone River by using Quasi-3D flow model on triangular mesh. Ryosuke AKOH and Tadaharu Ishikawa
16:10 - 16:30	A12-3: Fundamental Flowfield and Heat Transfer Characteristics of Hydrogen Flows Under Supercritical Pressure Conditions Hideyo Negishi et al.	B12-4: Development of JAXA Optimized Nonequilibrium Aerothermodynamic Analysis Code Shingo MATSUYAMA et al.	C12-3: Computation of Surface Heat Transfer Rate on Apollo CM Test Model in Free-Piston Shock Tunnel HIEST Tomoaki Ishihara et al.	D12-3: Turbulent flow simulation by lattice Boltzmann method on GPUs Itaru TANNO et al.	E12-3: Fundamental characteristics of tsunami invasion processes over land based on self-similarity distribution analysis Hidekazu SHIRAI et al.
16:30 - 16:50	A12-4: Numerical Simulation of Subcooled Pool Boiling using Diffuse Interface Model Yosuke AKATSUKA et al.	B12-5: Three-dimensional numerical simulation of bow-shock instability Yosuke Sato et al.	C12-4: Direct Numerical Simulation of Turbulent Flow in Channel with Riblets Kie OKABAYASHI and Tomoaki IKEDA	D12-4: Simulation of unsteady viscous flows using kinetically reduced local Navier-Stokes equations Tomohisa HASHIMOTO et al.	E12-4: Numerical Simulation of Water Wave in Various Containers Tomomi GODA and Tetsuya KAWAMURA
16:50 - 17:10		B12-2: 講演中止/cancelled	C12-5: Support-Interference effects on cylinders magnetically supported in axial flow Ryo KONOMI et al.	D12-5: Large-scale blast wave simulation based on multi-moment scheme by using GPU computing Masahiro KUROKI and Takayuki AOKI	E12-5: Reverse simulation for specifying pollutant source in a rectangular bay Toru Yagi et al.