

The 2nd International Symposium on Novel Computational and Experimental Methods for Complicated Fluid-Structure Interactions

Date: January 29, 2021

Place: Zoom Meeting Room

Organized by Research Institute for Applied Mechanics, Kyushu University

TIME TABLE

9:30 - 9:35	Opening Address by Changhong Hu
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Session 1 Next Generation CFD Development

9:35 - 10:30	Feng Xiao (Tokyo Institute of Technology) <i>Invited Lecture</i> Design New Fidelity Numerical Schemes by BVD Principle
10:30 - 10:55	Jabir Salami , Mohamed Kamra, Changhong Hu (Kyushu University) Development of Flux Reconstruction Method for Multiphase Flows
10:55 - 11:20	Zheng Li , Cheng Liu, Decheng Wan (Shanghai Jiao Tong University, China) High-Fidelity Numerical Simulation of Hydraulic Jump Phenomenon of a Surface-Piercing NACA Foil
11:20 - 11:45	Yunong Xiong (Tokyo Institute of Technology) Unify VOF and Level Set using THINC Scaling Method
11:45 - 12:10	Xizeng Zhao (Zhejiang University, China) Development of Three-Dimensional Wave Tank based on VPM-THINC/QQ Method and its Application

12:10 - 13:30	Lunch break
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Session 2 Computational Fluid Structure Interaction

13:30 - 13:55	Seiya Watanabe (RIAM, Kyushu University) A Cumulant Lattice Boltzmann Method for Free Surface Impact Pressure Prediction
13:55 - 14:20	Yudai Yokoyama and Takahito Iida (Osaka University) Verification of Enhanced MPS solver in Wedge Slamming for Development of Fluid-Ice-Ship Interaction Problem
14:20 - 14:45	Xiaosong Zhang , Jianhua Wang, Decheng Wan (Shanghai Jiao Tong University, China) A hybrid VOF/E-L Method for Simulating Complex Multiscale Bubbly Flows
14:45 - 15:10	Tomoaki Hirakawa (Akita University) A Boundary Element Method for Interaction of Wave and Arbitrary Shape Bodies

15:10 - 15:20	Break
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Session 3 ***Ocean Renewable Energy Technologies***

15:20 - 15:45	Yusaku Kyozuka , Daisaku Sakaguchi (Nagasaki University) Demonstration Experiments of a Floating/Submersible Tidal Current Power System in Naru-Strait in Goto, Nagasaki
15:45 – 16:10	Ali Alkhabbaz , Byung Ha Kim, Ho Seong Yang, Young-Ho LEE (Korea Maritime & Ocean University, Korea) Concept Design Experiences of 8MW Floating Offshore Wind Platform at Korea Western Sea
16:10 - 16:35	Yang lin , Ma qingwei, Liao kangping (Harbin Engineering University, China) Aero-Elastic Modeling of FOWT using Classic Rotational Beam Theory and Finite Element Method
16:35 - 17:00	Hongzong Zhu (RIAM, Kyushu University) A Unified Seakeeping and Maneuvering Analysis of Multiple Linked Towing System with Triangular Bodies
17:00 - 17:25	Zhiqiang Hu (Newcastle University, UK) Software-in-the-Loop Combined Reinforcement Learning Method for Dynamic Response Analysis of Floating Wind Turbines
17:25 - 17:30	Closing Address by Decheng Wan

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