The 3rd International Symposium on Novel Computational and Experimental Methods for Complicated Fluid-Structure Interactions

Date: January 21, 2022

Place: Zoom Meeting Room (From 9:50 Japan time)

Organized by Research Institute for Applied Mechanics, Kyushu University

9:50 -10:00	Opening Address by Changhong Hu
Session 1	High Performance Numerical Method
10:00 - 10:30	Yingyi Liu (RIAM, Kyushu University)
	Computational Accuracy and efficiency for Diffraction Transfer Matrix using Hybrid
	Source-dipole Formulations
10:30 - 11:00	Zhiteng Gao (Shanghai Jiao Tong University, China)
	Validation and Improvement of Actuator Line Model in the Large-Eddy Simulation of
	Wind-Turbine Wakes
11:00 - 11:30	Lei Tan (RIAM, Kyushu University)
	Motion and Load Characteristics of a Barge-Type Vertical-Axis Floating Wind Turbine
	with Moonpools
11:30 - 12:00	Tomoaki Hirakawa (Akita University)
	Improved BEM Simulation for Wave-Body Interactions by Elastic Mesh Techniques

12:00 - 13:00	Lunch break
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Session 2 Tidal Current and Wave Energy

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13:00 - 13:40	Daisaku Sakaguchi, Reiko Yamada, Yusaku Kyozuka (Nagasaki University)
	Invited Lecture
	Design Optimization of Tidal Current Turbines by Meta-model Assisted Genetic
	Algorithms
13:40 - 14:10	Mohamed Kamra, Rui Yamamoto, Changhong Hu (RIAM, Kyushu University)
	Application of Machine Learning to Wake Prediction of Tidal Current Turbine
14:10 - 14:40	Patxi Garcia Novo (Nagasaki University)
	Tidal Stream Energy as a Potential Continuous Power Producer: A Case Study for West
	Japan
14:40 - 15:10	Peiwen Cong (Dalian University of Technology, China)
	Numerical Evaluation of the Hydrodynamic Performance of Multi-Degree-of-Freedom
	Floating Oscillating Water Column (OWC) Devices

15:10 - 15:30	Break

Session 3	Offshore Wind Energy
15:30 - 16:00	Dezhi Wei, Decheng Wan (Shanghai Jiao Tong University, China)
	Analytical Modeling of Multiple Yawed Turbine Wakes: Considering the Effects of Transverse
	Wake Velocity
16:00 - 16:30	Xiaobo Zheng (Shanghai Jiao Tong University, China)
	Aerodynamic Response of a Pitching Foil to Vortex Shedding - Some Inspiration for the
	Vertical-Axis Wind Turbine
16.30-17.00	Ali Alkhabbaz, Ho-Seong Yang, Watchara Tongphong, Young-Ho Lee (Korea Maritime &
10.30-17.00	Ocean University, Korea)
	Aerodynamic Performance Analysis of Floating Wind Turbine Experiencing Platform Surge
	Motion
17:00 - 17:30	Nitin Thulkar (Chartered Engineer IET, UK)
	A Unified Seakeeping and Maneuvering Analysis of Multiple Linked Towing System with
	Triangular Bodies
17:30 - 18:10	Zhiqiang Hu (Newcastle University, UK)
	Invited Lecture
	Application of SADA Method on Dynamic Performances Analysis of FOWT : Case of Study
	with Full-Scale Hywind Data

18:10 - 18:20	Closing Address by Decheng Wan

Contact:

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