Day 1

Monday 19 October

A1 / B1

A1 / ROOM A · GARNET 214–217 — 10:40–12:20

Offshore Wind System & Digital Twins 1

Session chairs: Professor Binzhen Zhou, South China University of Technology; Professor Yifeng Yang, South China University of Technology

10:40–11:00	PPID-046	A Hybrid MVMD-Transform-BO Framework for Predicting Extreme Tension Responses in Mooring Systems of FOWTs Hairui Jiang — Yantai Research Institute, Harbin Engineering University
11:00–11:20	PPID-144	Deep-learning-assisted full-field stress virtual sensing for floating offshore wind turbines Minbo Cai — Technology Centre for Offshore and Marine, Singapore
11:20–11:40	PPID-049	A Combined Graph Neural Networks and Reduced-order Framework for Hydro-Structural Coupled Response Prediction in Floating Offshore Wind Turbines Lei Yang — Tsinghua University
11:40–12:00	PPID-057	Hybrid ROM-DL based Load and Structural Analysis for Floating Offshore Wind Turbine Substructures Miyanawala Tharindu Pradeeptha — Technology Centre for Offshore and Marine, Singapore
12:00–12:20	PPID-128	A Preliminary Digital Twin Framework for FOWTs with Integrated Mooring Lines Virtual Sensing Wei Chuan Law — Technology Centre for Offshore and Marine, Singapore

B1 / ROOM B · GARNET 213 — 10:40–12:20

Marine Hydrodynamics 1

Session chairs: Associate Professor Yan Li, University of Bergen; Dr. Xiaobo Chen, Research Department, Bureau Veritas Marine & Offshore

10:40–11:00	PPID-008	Physics-resolved simulation and data-driven prediction of wave overtopping over coastal seawalls Hao Chen — Newcastle University in Singapore
11:00–11:20	PPID-047	Experimental Investigation on Hydrodynamic Characteristics of Wide Porous Media Wenjing Li — The Hong Kong Polytechnic University
11:20–11:40	PPID-075	Bio-Inspired Wave Absorption System for Towing Tanks and Flumes: From Concept to Experimental Campaign Gil Wang — University of Haifa
11:40–12:00	PPID-178	Vision-Guided Hovering Collection of Deep-Sea Nodules for Sediment Plume Mitigation Wei Wang — Southern University of Science and Technology
12:00–12:20	PPID-069	Sloshing risk management in full-scale operational LNG carriers using structural vibration measurements Ki Jong Kim — Samsung Heavy Industries