Day 1

Monday 19 October

C3 / D3

C3 / ROOM C · GARNET 212 — 16:00–18:00

Symposium: Marine Renewable Systems 3

Symposium chairs: Prof Gao Zhen, Prof Low Ying Min
Session chair: Professor Yifeng Yang, South China University of Technology

16:00–16:20	PPID-168	Development and Sea Trial Validation of the Drakoo® Wave Energy Converter in China Henry Han — Hann-Ocean Technology Pte Ltd, Singapore
16:20–16:40	PPID-061	A Lattice Boltzmann Method for Three-Dimensional Floating OWC WECs Baoming Guo — The Hong Kong Polytechnic University
16:40–17:00	PPID-184	Deep reinforcement learning framework for pitch control of tidal turbine under combined wave and current conditions Shiye Wang — National University of Singapore
17:00–17:20	PPID-174	Multi-Objective Frequency-Domain Optimisation of WEC Position and PTO Damping in a Floating Tidal Turbine–WEC System Rajendran Arun Ingersol — Technology Centre for Offshore and Marine, Singapore
17:20–17:40	PPID-186	Gaussian process prediction and mechanism analysis of offshore oscillating water columns Xuejie Zhang — National University of Singapore
17:40–18:00	PPID-163	Impedance-Matching-Based Model Predictive Force Control with Active Peak-Power Management for Hydraulic PTO in Wave Energy Converter Xiao Cui — Qingdao Huanghai University

D3 / ROOM D · TOPAZ 220 & 225 — 16:00–18:00

Modular Floating Structures & Floating Infrastructures 2

Session chairs: Professor Gil Wang, University of Haifa; Dr Jeong Cheol Park, The Hong Kong Polytechnic University

16:00–16:20	PPID-020	A Modular Floating Solution for Multi-Purpose Ocean Space Utilisation: The ELIRE Smart Hub and the Thames Powerhub Case Study Claudio Rodriguez Castillo — Kelvin Hydrodynamics Laboratory, University of Strathclyde
16:20–16:40	PPID-104	Floating Infrastructure Living Lab – a demonstration platform Eeva Mikkola — VTT
16:40–17:00	PPID-040	Fast hydrodynamic analysis of multiple floating polygonal platforms using an FFT-based semi-analytical approach Jeong Cheol, PARK — The Hong Kong Polytechnic University
17:00–17:20	PPID-050	Towards Spatial Optimization of Modular Floating Structures for Coastal Expansion Gil Wang — University of Haifa
17:20–17:40	PPID-066	Coupled Modeling and Response-Based Regulation of a Floating Photovoltaic-Wave Energy Hybrid System with Hydraulic PTO Zhi Zheng — South China University of Technology
17:40–18:00	PPID-063	Preliminary Statistical Analysis of Typhoon Impact on Offshore Floating Wind Turbines in Greater Bay Area, China Yu Wang — Southern University of Science and Technology