



Osaka University

Graduate School of Engineering
Department of Naval Architecture & Ocean Engineering

Hydro-Seminar

by Lab. of Floating-Body Dynamics in Waves

The second speaker in the 36th Hydro-Seminar is

Dr. Kyung-Kyu Yang

Post-doctoral Fellow

At Department of Naval Architecture & Ocean Engineering
Osaka University, Osaka, Japan

Date: Friday, 27 January, 2017

Time: 16:00 – 17:00

Venue: S1-311 (Lecture room, 3F of S1 building)
Suita Campus, Osaka University



CFD Applications on Strongly Nonlinear Wave-Body Interaction Problems

Abstract

This talk will introduce computational fluid dynamics (CFD) applications on various strongly nonlinear wave-body interaction problems. Brief introduction of the development of numerical code based on Cartesian-grid method will be made. Validation and application of the newly developed code will be also presented in this seminar. Specifically, three different applications will be described: sloshing impact near the tank top, water-entry of wedge and ship-like sections, and added resistance of blunt bow ships in short waves.

The Speaker: Dr. Kyung-Kyu Yang

Dr. Kyung-Kyu Yang graduated Seoul National University for his bachelor and PhD degrees in 2008 and 2015. He was engaged in post-doctoral fellow at Seoul National University (supervisor: Prof. Yonghwan Kim) from 2015 to 2016. Currently he is a post-doctoral fellow at Osaka University (supervisor: Prof. Masashi Kashiwagi). His main research topic is a computational analysis on violent free-surface flows and their interactions with floating bodies.



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