

Hydro-Seminar

by Lab. of Floating-Body Dynamics in Waves

The speaker in the 53rd Hydro-Seminar is

Dr. Burhanuddin Halimi

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Visiting Scientist at Osaka University



Date: Monday, 1 July, 2019
Time: 15:00 – 16:00
Venue: S1-312 (Lecture room, 3F of S1 building)
Suita Campus, Osaka University

Hybrid Power Generation – Ocean Energy

Abstract

The growth of electrical power demand and people's awareness on greenhouse effect issue have encouraged the use of renewable energy resources in the world. Recently, ocean energy has attracted many researchers to more investigate this alternative energy due to its vigorous and ubiquitous potency of renewable energy. More than 70% of our earth surface is covered by ocean. Unfortunately, the ocean energy still has some crucial concerns regarding its dependency on the weather condition, power conversion efficiency and economical aspect. To minimize these drawbacks, a hybrid power generation is an alternative solution to overcome the issues. The hybrid power generation provides some benefits such as efficiency improvement, and minimizing weather dependency and, of course, optimizing the cost effectiveness.

The Speaker: Dr. Burhanuddin Halimi

Dr. Burhanuddin Halimi received the B. Eng and Master degrees in Electrical Engineering from Institut Teknologi Bandung, Indonesia, in 2000 and 2002, respectively. He got his PhD degree in Energy Systems Engineering from Seoul National University, Republic of Korea in 2013. From 2014, he has been working at School of Electrical Engineering and Informatics, Institut Teknologi Bandung where he is currently as an assistant professor in the Power Electrical Engineering Program Study. He is a visiting researcher at Laboratory of Ocean Space Development, Department of Naval Architecture & Ocean Engineering, Osaka University, Japan. His research interests are power generation plant, power energy conversion, renewable energy, including solar energy, waste to energy, wind energy, and ocean energy. He is a member of IEEE and ASEAN Engineering Register.



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