

Curriculum Vitae
JONG HUN WOO

Current as of January 2024

Affiliation: Professor
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Date of birth 26th January 1975

Jonghun is the full professor in the Department of Naval Architecture and Ocean Engineering at Seoul National University and is running the Production Engineering laboratory. In 2019 He was awarded the Elmer L. Hann for the best paper from the Society of Naval Architecture and Marine Engineers. His research expertise covers the areas of shipbuilding engineering, discrete event simulation, artificial intelligence, machine learning and queuing theory.

CURRENT RESEARCH INTERESTS

- 1. Shipbuilding**
 - A. Shipbuilding management system
 - B. Shipyard layout design
 - C. Product lifecycle management
- 2. Production simulation**
 - A. Discrete event simulation
 - B. Kinematic simulation
 - C. Ergonomics and human simulation
- 3. Industrial Engineering**
 - A. Queuing theory with variability
 - B. Planning and scheduling
- 4. Artificial Intelligence**
 - A. Data analysis
 - B. Reinforcement learning with deep neural network

EDUCATION

Ph.D. in Naval Architecture and Ocean Engineering, March 2000 – August 2005

Seoul National University, Seoul, South Korea

Dissertation: Simulation of indoor processes in shipbuilding based on integrated products, processes, resources and scheduling (Advisor: Jong Gye Shin)

MSE in Naval Architecture and Ocean Engineering, March 1998 – February 2000

Seoul National University, Seoul, South Korea

Dissertation: Analysis of Heat Transfer between the Gas Torch and the Plate for the Application of Line Heating (Advisor: Jong Gye Shin)

BSE in Naval Architecture and Ocean Engineering, March 1994 – February 1998

Seoul National University, Seoul, South Korea

PROFESSIONAL EXPERIENCES

Korea Maritime and Ocean University, Department of Naval Architecture and Ocean Engineering, Busan, Korea

Associate Professor, March 2016 – February 2019

Assistant Professor, March 2012 – February 2016

- Project management
- Discrete event simulation
- Thermodynamics

Samsung SDS, Product and building lifecycle management

Principal engineer, September 2010 – February 2012

- PLM business development of high-tech industry and shipbuilding industry
- PMO activities of PLM system development of Samsung electronics
- PLM system consulting for Huawei

Dassault Systems Korea, DELMIA

Principal engineer, April 2007 – June 2008

- Shipbuilding solution development for ship production design & ship production
 - PLM system construction for Doosan Heavy Industry
 - PLM consulting for Yantai Raffles Shipbuilding Company
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