**A picture containing human face, person, chin, neck

Description automatically generatedYongkuk Jeong, PhD**

Assistant Professor in Production Logistics

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**Employment**

* **Assistant Professor**, Department of Production Engineering, KTH Royal Institute of Technology, Sweden,

January 2021 – Present

* **Postdoc**, Department of Sustainable Production Development, KTH Royal Institute of Technology, Sweden, January 2019 – January 2021
* **Lecturer**, Department of Naval Architecture and Marine Engineering, Inha Technical College, South Korea, March 2018 – December 2018
* **Postdoctoral Researcher**, Research Institute of Marine Systems Engineering, Seoul National University, South Korea, March 2018 – January 2019

**Education**

* **Ph.D.**, Department of Naval Architecture and Ocean Engineering, Seoul National University, South Korea, 2018 (thesis title: A shipyard logistics simulation system considering shipbuilding process, spatial arrangement, and logistics flow)
* **B.Sc.**, Department of Naval Architecture and Ocean Engineering, Seoul National University, South Korea, 2011 (Graduated with first-class honours)

**Research grants and projects (selected)**

* Dynamic SALSA – Dynamic scheduling of assembly and logistics systems using AI (Eureka SMART, Vinnova) – *building an AI-based image analysis platform for warehouse management*
* TIMEBLY – Time data management automation for manual assembly (Vinnova) – *leading the human pose estimation and time series prediction project using open-source Python libraries*
* DYNASTEEL – Dynamic scheduling and transport visibility in steel production (Vinnova) – *involved in human-centered system design process including requirements analysis and prototyping*
* C-PALS – Cyber-physical assembly and logistics system (Eureka SMART, Vinnova) - *built a real-time production logistics data visualization platform using Node-RED, Apache Kafka, MariaDB, and Grafana*
* HUPMOBILE – Holistic urban and peri-urban mobility (Interreg Baltic Sea Region, EU) *– involved in participatory simulation modeling process for multiple stakeholders*

**Publications (selected 5 papers)**

* Erik Flores-García, **Yongkuk Jeong**, Sichao Liu, Magnus Wiktorsson, and Lihui Wang (2022), Enabling Industrial Internet of Things-based Digital Servitization in Smart Production Logistics, *International Journal of Production Research*, 61(12).
* Byeongseop Kim, **Yongkuk Jeong**, and Jong Gye Shin, (2020), Spatial Arrangement using Deep Reinforcement Learning to Minimise Rearrangement in Ship Block Stockyards, *International Journal of Production Research*, 58(16), pp. 5062-5076
* **Yong-Kuk Jeong**, Youngmin Kim, Su Heon Ju, Jong-Gye Shin, Jong-Choel Kim, and Jong Hun Woo, (2019), A Spatial Layout Optimization Program considering the Survivability of a Naval Vessel in the Early Design Stage, *Journal of Ship Production and Design*, 35(2)
* **Yong-Kuk Jeong**, SuHeon Ju, Huiqiang Shen, Dong Kun Lee, Jong Gye Shin, and Cheolho Ryu, (2018), An Analysis of Shipyard Spatial Arrangement Planning Problem and a Spatial Arrangement Algorithm considering free space and unplaced block, *International Journal of Advanced Manufacturing Technology*, 95, pp. 4307–4325
* **Yong-Kuk Jeong**, Philippe Lee, and Jong Hun Woo, (2018), Shipyard Block Logistics Simulation Using Process-centric Discrete Event Simulation Method, *Journal of Ship Production and Design*, 34(2), pp. 168-179
* More publications areavailablein Google Scholar profile([link](https://scholar.google.com/citations?user=y59QYYIAAAAJ&hl=en))

**Skills**

* Project management: participated in, led and successfully delivered various research and IT development projects for different types of stakeholders
* Programming skills: C#, Python, JavaScript, Java, SQL, and UML
* Language: English (fluent), Korean (fluent), Swedish (working knowledge)

**Others**

* **Winner of the Elmer L. Hann Award** for best paper on Ship Production delivered at a Society of Naval Architects and Marine Engineers (SNAME) event in 2019 for the paper "Model-based Computational Shipyard Dynamics and its Applications"
* **Reviewed papers** from various journals and conferences including International Journal of Computer Integrated Manufacturing (IJCIM), International Journal of Production Research (IJPR), Ships and Offshore Structures, Automation in Construction, Journal of Engineering for the Maritime Environment (JEME), International Journal of Naval Architecture and Ocean Engineering (IJNAOE), Journal of Ship Production and Design (JSPD), International Journal of Precision Engineering and Manufacturing-Green Technology (IJPEM-GT), IFIP International Conference on Advances in Production Management Systems (APMS), Winter Simulation Conference (WSC), and European Operations Magement Association (EurOMA) annual conference
* **Editorial board member** in *International Journal of Sustainable Engineering* and *International Journal of Precision Engineering and Manufacturing – Smart Technology*
* **Life member** of the Society of Naval Architects of Korea (SNAK)