

CURRICULUM VITAE

(a) Name: Kap Hwan Kim

Professor

Maritime Logistics and Free Trade Islands Research Center,
Ocean College, Zhejiang University
No.1 Zheda Rd, Zhoushan Campus, Zhoushan, 316021, Zhejiang, P.R. China

Fellow of The Korean Academy of Science and Technology

(b) Academic qualifications: BS from (Industrial Engineering) Seoul National University, Korea (1977) and Ph.D. (1987) & MS (1979) from (Industrial Engineering) Korea Advanced Institute of Science and Technology, Korea

(c) Previous academic positions held:

Jan. 2013 – Dec. 2014, President, Korean Institute of Industrial Engineers

Nov .2007 –Nov. 2013: Director of Institute of Logistics Innovation and Networking,
Pusan National University

March, 1984 – August, 2020: a faculty member at Pusan National University

(d) Previous relevant research work

Research works are related to technology development on various types of logistics systems. Specifically, they include the optimal design of container terminals, design of logistics systems, development of terminal operation systems, and automated container terminals.

(f) Publication records : papers in international journals during last 5 years

Baolin Wen, Kap Hwan Kim, Xuehao Feng, Sequencing ship operations considering the trajectory of the quay crane spreader, *Transportation Research Part B*, 186 (2024) 102987

Xuehao Feng, Yucheng He, Kap-Hwan Kim, Space planning considering congestion in container terminal yards, *Transportation Research Part B* 158 (2022) 52–77

Kap Hwan Kim, Youn Ju Woo, Jae Gwan Kim, Space reservation and remarshalling operations for outbound containers in marine terminals, *Maritime Economics & Logistics*, **23**, 154–178 (2021). <https://doi.org/10.1057/s41278-019-00125-7>

Kim, K.H., Haralambides, H. Smart operations planning in container terminals: integrating algorithms with our practical knowledge base. *Marit Econ Logist* **23**, 1–3 (2021). <https://doi.org/10.1057/s41278-020-00174-3>

Kim, K.H., Yi, S. Utilizing information sources to reduce relocation of inbound containers. *Marit Econ Logist* **23**, 726–749 (2021). <https://doi.org/10.1057/s41278-021-00189-4>

Zhou, P., Lin, L. & Kim, K.H. Anisotropic Q-learning and waiting estimation based real-time routing for automated guided vehicles at container terminals. *J Heuristics* (2021).

<https://doi.org/10.1007/s10732-020-09463-9>

Yanjie Zhou and Kap Hwan Kim, Optimal parameters in concession contracts between container terminal operators and investors, *International Journal of Logistics: Research and Applications*, <https://doi.org/10.1080/13675567.2020.1754772>, 2020

Yanjie Zhou and Kap Hwan Kim, Optimal concession contract between a port authority and container-terminal operators by revenue-sharing schemes with quantity discount, *Maritime Policy & Management*, <https://doi.org/10.1080/03088839.2019.1707314>, 2020

Yanjie Zhou and Kap Hwan Kim, A game theoretic model and a coevolutionary solution procedure to determine the terminal handling charges for container terminals, *Computers & Industrial Engineering*, vol. 144, June 2020, 106466, <https://doi.org/10.1016/j.cie.2020.106466>

Sanghyuk Yi, Bernd Scholz-Reiter, Taehoon Kim, Kap Hwan Kim, “Scheduling appointments for container truck arrivals considering their effects on congestion,” *Flexible Service and Manufacturing*, 31(3), 2019, 730-762

Xuefeng Jin, Kap Hwan Kim, Storage Space Sharing among Container Handling Companies, *Transportation Research Part E* 127, 111-131, 2019

Hoon Lee, Kap Hwan Kim, Estimating the Expected Number of Re-handles for Empty Containers during Loading Operation, *J. Navig. Port Res.* Vol. 43, No. 3: 197-208, 2019

Ming Yin, Zheng Wan, Kap Hwan Kim, Shi Yuan Zheng, An optimal variable pricing for container line revenue management systems, *Maritime Economics and Logistics*, 21, 173-191 (2019). DOI 10.1057/s41278-017-0082-8

(g) Book publications (during the last 5 years)

Kap-Hwan Kim, *Planning and Operation of Container Terminals*, Elsevier, Netherlands, 2024

(h) Other academic activities (during the last 5 years)

Guest editor, Ho Thanh Phong, Voratas Kachitvichyanukul, Kap Hwan Kim, Vincent F. Yu, Mitsuo Gen, *Models and algorithms for supply chain systems*, *Computers & Industrial Engineering*, 2019, March

Keynote speech, *Smart Operation of Container Terminals*, YLIB-4, Wuhan, 2021, Oct.

Guest editor, Kap Hwan Kim and Hercules Haralambides, Smart Operations Planning in Container Terminals: Integrating Algorithms with our Practical Knowledge Base, Maritime Economics & Logistics, Volume 23, issue 1, 2021, March

Invited talk, Issues on terminal operation and design, Korea Maritime Institute, NELT colloquium, July, 2020

Keynote talk, Smart Terminal Operation Systems, LOGIC (the 5th Logistics International Conference) May 26, 2022, Belgrade, Serbia

Plenary talk, Technological Issues for Smart Container Terminal, IAME 2022, September, 16, 2022, Busan

Invited seminar, Prospects and responses to domestic and international shipping ports after COVID-19, The Foreign Scholar Invitation Seminar, IAME 2022, September, 15, 2022, Busan

Invited talk, Scheduling and Controlling Operations in Container Terminals, Tsinghua University, October 12, 2022

Invited talk, Facilities and Operation Scheduling in Container Terminals, Jeon-nam University, October, 24, 2022

Invited talk, Introduction to Researches on Container Terminals, Zhengzhou University, June 25, 2023

Keynote speech, Automation in Port Container Terminals, The 3rd IEEE International Conference on Automation in Manufacturing, Transportation and Logistics (iCaMaL2023), Nov., 3, 2023, Wuhan, China

Keynote speech, Operational Issues for Smart Container Terminals, China (Zhejiang) Pilot Trade Free Zone International Academic Conference on Innovative Experience and Development Trend, Zhejiang International Maritime College and China (Zhejiang) Pilot Free Trade Zone Zhoushan Area, Dec.30th, 2023, Zhoushan, China

Invited talk, Operational Issues for Smart Container Terminals, Korea-China Workshop, SC SC research center, Pusan National University, July 26, 2024

Invited talk, Issues on Design and Operation of Container Terminals, Ningbo Tech University, August 7, 2024

Invited lecture on ‘Automation and Smart operation of container terminals’, Incheon University, Aug., 23, 2024

Invited seminar, Collaboration in Container Port Logistics, Lanzhou University, September 3, 2024