Shipping Logistics

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Shipping concerns with the transportation of goods between two or more seaports. Logistics describes the flow of goods from the initial supplier to a delivery organization, then to the final consumer. Shipping Logistics studies the up-to-date developments and practices of logistics in terms of the shipping and port industry. This topic has received increased attention world-wide due to the fast growing volume of world trade in the last decade. This reading list explores key maritime logistics activities, environmental and economic aspects of shipping, and the supply chain system, which involves a series of activities and parties in the course of goods delivery. It contains over 40 publications mainly published in the last 2 years and aims to give insight to various topics.

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TOPICS

- Introduction
- Green Shipping
- Port Management
- Risk Management
- Shipping Economics
- Supply Chain System

Introduction

Core readings of basic concepts in logistics with a special emphasis on maritime shipping

Chew, E., Christiansen, M., Günther, H.-O., Kim, K., & Kopfer, H. (2015). Logistics and maritime systems. *Flex Serv Manuf J, 27*(2), 135-138.

Huang, Y., Gen, M., Kim, K. H., Liang, C., & Lin, L. (2015). Maritime logistics and transportation intelligence. *Computers & Industrial Engineering, 89*, 1.

Ng, A. K. Y., Yang, Z., Cahoon, S., & Lee, P. T. W. (2016). Introduction: Port, maritime logistics, and regional development. *Growth and Change, 47*(3), 346-348.

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Green Shipping

The future of shipping pursues efficient maritime transport with minimal effect on the ecosystem and the environment

Acciaro, M., & Wilmsmeier, G. (2015). Energy efficiency in maritime logistics chains. *Research in Transportation Business & Management, 17*, 1-7.

Davarzani, H., Fahimnia, B., Bell, M., & Sarkis, J. (2016). Greening ports and maritime logistics: A review. *Transportation Research Part D, 48*, 473-487.

Lam, J., & Lai, K. (2015). Developing environmental sustainability by ANP-QFD approach: The case of shipping operations. *Journal of Cleaner Production, 105*, 275-284.

Lam, J. S. L. (2015). Designing a sustainable maritime supply chain: A hybrid QFD-ANP approach. *Transportation Research Part E: Logistics and Transportation Review, 78*, 70-81.

Lun, Y. H. V. (2015). *Green shipping management*. Cham: Springer International Publishing.

Mansouri, S. A., Lee, H., & Aluko, O. (2015). Multi-objective decision support to enhance environmental sustainability in maritime shipping: A review and future directions. *Transportation Research Part E, 78*, 3-18.

Palacio, A., Adenso-Díaz, B., & Lozano, S. (2015). A decision-making model to design a sustainable container depot logistic network: The case of the Port of Valencia. *Transport*, 1-12.

Roh, S., Thai, V. V., & Wong, Y. D. (2016). Towards sustainable ASEAN port development: Challenges and opportunities for Vietnamese ports. *The Asian Journal of Shipping and Logistics, 32*(2), 107-118.

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Port Management

Understanding the operations of a port and the management of containers at the terminals

Bandara, Y. M., Garaniya, V., Chin, C., & Leong, Z. H. (2015). Improving logistics management using foldable/collapsible containers: A case study. *The Asian Journal of Shipping and Logistics, 31*(1), 161-185.

Di Francesco, M., Díaz-Maroto Llorente, N., Zanda, S., & Zuddas, P. (2016). An optimization model for the short-term manpower planning problem in transhipment container terminals. *Computers & Industrial Engineering, 97*, 183-190.

Ding, Z. Y., Jo, G. S., Wang, Y., & Yeo, G. T. (2015). The relative efficiency of container terminals in small and medium-sized ports in China. *The Asian Journal of Shipping and Logistics, 31*(2), 231-251.

Heilig, L., & Voß, S. (2016). Information systems in seaports: A categorization and overview. *Information Technology and Management*, 1-23.

Liu, M., Lee, C.-Y., Zhang, Z., & Chu, C. (2016). Bi-objective optimization for the container terminal integrated planning. *Transportation Research Part B, 93*, 720-749.

Schellinck, T., & Brooks, M. R. (2016). Developing an instrument to assess seaport effectiveness in service delivery. *International Journal of Logistics Research and Applications, 19*(2), 143-157.

Song, D.-W. (2015). *Maritime logistics : A guide to contemporary shipping and port management* (2nd ed.). London: Kogan Page.

Song, D.-W., & Parola, F. (2015). Strategising port logistics management and operations for value creation in global supply chains. *International Journal of Logistics Research and Applications, 18*(3), 189-192.

Zhen, L. (2016). Modeling of yard congestion and optimization of yard template in container ports. *Transportation Research Part B, 90*, 83-104.

Zhen, L., Xu, Z., Wang, K., & Ding, Y. (2016). Multi-period yard template planning in container terminals. *Transportation Research Part B, 93*, 700-719.

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Risk Management

A crucial activity that identifies and analyzes risks in the operational process of shipping

Chang, C., Xu, J., & Song, D. (2015). Risk analysis for container shipping: From a logistics perspective. *International Journal Of Logistics Management, 26*(1), 147-171.

Fan, L., Wilson, W. W., & Dahl, B. (2015). Risk analysis in port competition for containerized imports. *European Journal of Operational Research, 245*(3), 743-753.

König, A., & Spinler, S. (2016). The effect of logistics outsourcing on the supply chain vulnerability of shippers: Development of a conceptual risk management framework. *International Journal of Logistics Management, 27*(1), 122-141.

Kwesi-Buor, J., Menachof, D. A., & Talas, R. (2016). Scenario analysis and disaster preparedness for port and maritime logistics risk management. *Accident Analysis and Prevention*.

Lam, J. S. L., & Su, S. (2015). Disruption risks and mitigation strategies: An analysis of Asian ports. *Maritime Policy & Management, 42*(5), 415-435.

Sadovaya, E., & Thai, V. V. (2015). Impacts of implementation of the Effective Maritime Security Management Model (EMSMM) on organizational performance of shipping companies. *The Asian Journal of Shipping and Logistics, 31*(2), 195-215.

Yang, Z., Wang, J., & Ng, A. K. Y. (2016). Toward robust management of maritime risk and security. In P. T.–W. Lee & K. Cullinane (Eds.), *Dynamic shipping and port development in the globalized economy* (Vol. 1) (pp. 122-149). Basingstoke: Palgrave Macmillan.

Yeo, G. (2015). Maritime Safety Management. *The Asian Journal of Shipping and Logistics, 31*(2), 191-193.

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Shipping Economics

Learning from the economic analysis of maritime transportation

Cheong, I., & Suthiwartnarueput, K. (2015). ASEAN's initiatives for regional economic integration and the implications for maritime logistics reforms. *International Journal Of Logistics Management, 26*(3), 479-493.

Lee, P. T.–W. (2016). *Dynamic shipping and port development in the globalized economy volume 1 : Applying theory to practice in maritime logistics*. Basingstoke: Palgrave Macmillan.

Lee, P. T.–W. (2016). *Dynamic shipping and port development in the globalized economy volume 2 : Emerging trends in ports*. Basingstoke: Palgrave Macmillan.

Lee, P. T.–W., Lun, Y. H. V., Lai, K.-H., & Cheng, T. C. E. (2016). Maritime logistics and port connectivity in the globalised economy. *Transportation Research Part E: Logistics and Transportation Review, 95*, 323-325.

Rau, P., & Spinler, S. (2016). Investment into container shipping capacity: A real options approach in oligopolistic competition. *Transportation Research Part E, 93*, 130-147.

Slack, B., & Gouvernal, E. (2016). Container transshipment and logistics in the context of urban economic development. *Growth and Change, 47*(3), 406-415.

Tongzon, J. L., & Lee, S.-Y. (2016). Achieving an ASEAN single shipping market: Shipping and logistics firms' perspective. *Maritime Policy & Management, 43*(4), 407-419.

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Supply Chain System

A broader concept to study and learn the role and impact of maritime logistics in a bigger picture

Clott, C., & Hartman, B. C. (2016). Supply chain integration, landside operations and port accessibility in metropolitan Chicago. *Journal of Transport Geography, 51*, 130-139.

Djikanovic, J., & Vujosević, M. (2016). A new integrated forward and reverse logistics model: A case study. *International Journal of Computational Intelligence Systems, 9*(1), 25-35.

Lam, J. S. L., & Bai, X. (2016). A quality function deployment approach to improve maritime supply chain resilience. *Transportation Research Part E, 92*, 16-27.

Maloni, M. J., Gligor, D. M., & Lagoudis, I. N. (2016). Linking ocean container carrier capabilities to shipper–carrier relationships: A case study. *Maritime Policy & Management, 43*(8), 1-17.

Rodrigue, J.-P., & Notteboom, T. E. (2015). Containerization, box logistics and global supply chains: The integration of ports and liner shipping networks. In H. E. Haralambides (Ed.), *Port Management* (pp. 5-28). London: Palgrave Macmillan UK.

Seo, Y.-J., Dinwoodie, J., & Roe, M. (2016). The influence of supply chain collaboration on collaborative advantage and port performance in maritime logistics. *International Journal of Logistics Research and Applications, 19*(6), 1-21.

Stevens, L. C. E., & Vis, I. F. A. (2016). Port supply chain integration: Analyzing biofuel supply chains. *Maritime Policy & Management, 43*(3), 261-279.

Van Hassel, E., Meersman, H., Van De Voorde, E., & Vanelslander, T. (2016). Impact of scale increase of container ships on the generalised chain cost. *Maritime Policy & Management, 43*(2), 192-208.

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