

Curriculum Vitae

Xu XIN, David, 辛旭

CONTACT POINTS

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EDUCATION

The Hong Kong Polytechnic University (Joint PhD)

Doctor of Philosophy (Ph.D.) student in Management Science, 2023-present (Supervisor: Shuaian Wang)

Tongji University

Doctor of Philosophy (Ph.D.) student in Management Science, 2018-present (Supervisor: Xiaoli Wang)

Dalian Maritime University

Bachelor of Management in Logistics Management, 2018 (Supervisor: Zhongzhen Yang)

EDITORSHIP

Academic Editor

PLOS ONE (JCR Q1): 2024-present

Guest editor

Frontiers in Marine Science (IF: 2.8; JCR Q1)

SI: Challenges and Opportunities for Decarbonizing the Maritime Industry, 2024 (with K. Chen, Z. Yang and L. Xu)

RESEARCH

Refereed Journal Publications

(Total citations as of June 16, 2025: Google Scholar=702; h-index=18; h10-index=24; Xu Xin as corresponding author in ^.)

1. Zhang T., Wang S., ^**Xin, X.** (2025). Liner fleet deployment and slot allocation problem: A distributionally robust optimization model with joint chance constraints. *Transportation Research Part B: Methodological*, 197, 103236. (**LMS-A Journal**, SCI)
2. **Xin, X.**, Wang, X., Ma, L., Chen, K., & Ye, M. (2022). Shipping network design–infrastructure investment joint optimization model: a case study of West Africa. *Maritime Policy & Management*, 49(5), 620-646. (**LMS-A Journal**, SSCI)
3. **Xin, X.**, Zhang, T., Wang, X., He, F., & Wu, L. (2025). Risk-averse distributionally robust optimization for construction waste reverse logistics with a joint chance constraint.

Computers & Operations Research, 173, 106829. (**LMS-B Journal**, SCI)

4. **Xin, X.**, Jiang, Q., Li, C., Li, S., & Chen, K. (2023). Permutation flow shop energy-efficient scheduling with a position-based learning effect. *International Journal of Production Research*, 61(2), 382-409. (**LMS-B Journal**, SCI)
5. **Xin, X.**, Liu, M., Wang, X., Chen, H., & Chen, K. (2022). Investment strategy for blockchain technology in a shipping supply chain. *Ocean & Coastal Management*, 226, 106263. (**LMS-B Journal**, SCI)
6. **Xin, X.**, Liu, M., Wang, X., Zhang, T., Gao, L., & Chen, K. (2022). Evolutionary analysis of Japan's nuclear wastewater discharge events considering the impact of participants' emotions. *Ocean & Coastal Management*, 225, 106231. (**LMS-B Journal**, SCI)
7. **Xin, X.**, Zhang, T., He, F., Zhang, W., & Chen, K. (2023). Assessing and simulating changes in ecosystem service value based on land use/cover change in coastal cities: A case study of Shanghai, China. *Ocean & Coastal Management*, 239, 106591. (**LMS-B Journal**, SCI)
8. Liu, M., **Xin, X.**, Wang, X., Zhang, T., & Chen, K. (2025). Dual-channel slot sales strategy for container liner shipping companies with blockchain technology adoption. *Transport Policy*, 162, 200-220. (**LMS-B Journal**, SCI)
9. Li, D., **Xin, X.**, & Zhou, S. (2023). Integrated governance of the Yangtze River Delta port cluster using niche theory: A case study of Shanghai Port and Ningbo-Zhoushan Port. *Ocean & Coastal Management*, 234, 106474. (**LMS-B Journal**, SCI, **ESI Top 1%**)
10. Xiang, Z., **Xin, X.**, Zhang, T., Chen, K., & Liu, M. (2025). Asia–Europe liner shipping network design model considering Arctic route and black carbon tax. *Ocean & Coastal Management*, 261, 107492. (**LMS-B Journal**, SCI)
11. Gao, S., **Xin, X.**, Li, C., Liu, Y., & Chen, K. (2022). Container ocean shipping network design considering carbon tax and choice inertia of cargo owners. *Ocean & Coastal Management*, 216, 105986. (**LMS-B Journal**, SCI)
12. Chen, K., Guo, J., **Xin, X.**, Zhang, T., & Zhang, W. (2023). Port sustainability through integration: A port capacity and profit-sharing joint optimization approach. *Ocean & Coastal Management*, 245, 106867. (**LMS-B Journal**, SCI)
13. Li, Z., Wang, L., Wang, G., **Xin, X.**, Chen, K., & Zhang, T. (2024). Investment and subsidy strategy for low-carbon port operation with blockchain adoption. *Ocean & Coastal Management*, 248, 106966. (**LMS-B Journal**, SCI)
14. Liu, Y., **Xin, X.**, Yang, Z., Chen, K., & Li, C. (2021). Liner shipping network-transaction mechanism joint design model considering carbon tax and liner alliance. *Ocean & Coastal Management*, 212, 105817. (**LMS-B Journal**, SCI)
15. Chen, K., Lu, Q., **Xin, X.**, Yang, Z., Zhu, L., & Xu, Q. (2022). Optimization of empty container allocation for inland freight stations considering stochastic demand. *Ocean & Coastal Management*, 230, 106366. (**LMS-B Journal**, SCI)
16. Liu, M., Lai, K.-h., Wong, C. W., **Xin, X.**, & Lun, V. Y. (2024). Smart ports for sustainable shipping: concept and practices revisited through the case study of China's Tianjin port. *Maritime Economics & Logistics*, 1-46. (**LMS-B Journal**, SCI)
17. **Xin, X.**, Wang S., Zhang, T. (2025). Truck-drone supported humanitarian relief logistics network design: A two-stage distributionally robust optimization approach. *Transportation Research Part C: Emerging Technologies*, Accepted. (SCI)

18. **Xin, X.**, Zhang, T., Xiang, Z., & Liu, M. (2025). Battery electric vehicle transportation network robust pricing-infrastructure location model with boundedly rational travelers. *Applied Energy*, 386, 125606. (SCI)
19. **Xin, X.**, Wang, X., Chen, Z., & Chen, K. (2021). Coastal shuttle tanker inventory routing model with a discrete loaded quantity. *Applied Economics*, 53(53), 6120-6137. (SSCI)
20. **Xin, X.**, Jiang, Q., Li, S., Gong, S., & Chen, K. (2021). Energy-efficient scheduling for a permutation flow shop with variable transportation time using an improved discrete whale swarm optimization. *Journal of Cleaner Production*, 293, 126121. (SCI)
21. **Xin, X.**, Wang, X., Tian, X., Chen, Z., & Chen, K. (2019). Green scheduling model of shuttle tanker fleet considering carbon tax and variable speed factor. *Journal of Cleaner Production*, 234, 1134-1143. (SCI)
22. **Xin, X.**, Wang, X., Zhang, T., Chen, H., Guo, Q., & Zhou, S. (2023). Liner alliance shipping network design model with shippers' choice inertia and empty container relocation. *Electronic Research Archive*, 31(9), 5509-5540. (SCI)
23. **Xin, X.**, Zhang, T., Li, C., Liu, Y., Gao, L., & Du, Y. (2023). A battery electric vehicle transportation network design model with bounded rational travelers. *Journal of Advanced Transportation*, 2023(1), 6506169. (SCI)
24. Chen, K., Su, S., Gong, Y., **Xin, X.**, & Zeng, Q. (2024). Coastal transportation system green policy design model based on shipping network design. *International Journal of Logistics Research and Applications*, 27(3), 428-449. (SSCI)
25. Chen, K., **Xin, X.**, Zhang, T., & Yang, Z. (2020). Multiport cooperative location model with a safe-corridors setting in West Africa. *International Journal of Logistics Research and Applications*, 23(6), 580-601. (SSCI)
26. Chen, Z., **Xin, X.**, Chen, K., & Zeng, Q. (2020). A location model for the departure port tax rebate policy. *Applied Economics*, 52(24), 2556-2568. (SSCI)
27. Chen, K., **Xin, X.**, Niu, X., & Zeng, Q. (2020). Coastal transportation system joint taxation-subsidy emission reduction policy optimization problem. *Journal of Cleaner Production*, 247, 119096. (SCI)
28. Cheng, K., Zou, Y., **Xin, X.**, & Gong, S. (2020). Optimal lane expansion model for a battery electric vehicle transportation network considering range anxiety and demand uncertainty. *Journal of Cleaner Production*, 276, 124198. (SCI)
29. Jiang, Q., **Xin, X.**, Yao, L., & Chen, B. (2024). METSM: Multiobjective energy-efficient task scheduling model and method for an edge heterogeneous multiprocessor system. *Future Generation Computer Systems*, 152, 207-223. (SCI)
30. Yang, Z., **Xin, X.**, Chen, K., & Yang, A. (2021). Coastal container multimodal transportation system shipping network design-toll policy joint optimization model. *Journal of Cleaner Production*, 279, 123340. (SCI)
31. Zhang, T., **Xin, X.**, He, F., Wang, X., & Chen, K. (2023). How to promote sustainable land use in Hangzhou Bay, China? A decision framework based on fuzzy multiobjective optimization and spatial simulation. *Journal of Cleaner Production*, 414, 137576. (SCI)
32. Gao, L., Wang, X., & **Xin, X.** (2025). Channel Selection Strategies of Chinese E-Commerce Supply Chains Under Green Governmental Subsidies. *Systems*, 13(3), 172. (SCI)
33. Li, Z., Yu, X., Shang, J., Chen, K., **Xin, X.**, Zhang, W., & Yu, S. (2025). Container Liner

Shipping System Design Considering Methanol-Powered Vessels. *Journal of Marine Science and Engineering*, 13(4), 709. (SCI)

34. Chen, K., Yi, X., **Xin, X.**, & Zhang, T. (2023). Liner shipping network design model with carbon tax, seasonal freight rate fluctuations and empty container relocation. *Sustainable Horizons*, 8, 100073. (ESCI)

Book

1. Wang, X., **Xin, X.**, Gao, L., and Shen, S. (2021). *Logistics, Transportation and Distribution Management (2nd Edition)*. Tsinghua University Press.
Book link: http://www.tup.tsinghua.edu.cn/bookscenter/book_09126701.html

Research Awards, Scholarships, and Honors

2024	Best Presentation Award The 2 nd PolyU Research Student Conference (PRSC 2024) For the paper “Liner fleet deployment and slot allocation problem: A distributionally robust optimization model with joint chance constraints”
2024	PolyU Reaching Out Award 2023/24 The Hong Kong Polytechnic University
2024	PolyU Talent Development Scholarship 2023/24 The Hong Kong Polytechnic University
2023	National Scholarship Ministry of Education of the People’s Republic of China
2019	Best Runner-up Paper Award The 4 th Belt and Road Initiative Conference in collaboration with the Asian Logistics Round Table For the paper “Multiport cooperative location model with a safe-corridors setting in West Africa”
2019	National Scholarship Ministry of Education of the People’s Republic of China
2017	National Scholarship Ministry of Education of the People’s Republic of China

Conference Presentations

1. *The 3rd International Conference of the Yangtze-River Research and Innovation Belt (Y-RIB)*, 5-7 November 2020, Ningbo, China. Topic: ‘Intermodal Cargo-Container Joint Flow Equilibrium and Pricing’.
2. *The 2nd International Symposium on Data-Driven Intelligent Optimization for Decision Making (DIODM2024)*, 24-28 March 2024, Matsue, Japan. Topic: ‘Port sustainability through integration: A port capacity and profit-sharing joint optimization approach’.
3. *The 2nd PolyU Research Student Conference (PRSC 2024)*, 29-30 August 2024, Hong Kong, China. Topic: ‘Liner fleet deployment and slot allocation problem: A distributionally robust optimization model with joint chance constraints’.

SERVICES

Committee Service

- Faculty Research Committee (FRC) Member, Faculty of Business (2024-2025, The Hong Kong Polytechnic University)

Conference Organization

- *The 3rd PolyU Research Student Conference (PRSC 2025)*, 2-4 July 2025, Hong Kong: Student Organization Committee General Co-chairs.

Journal Reviewer

- Ad Hoc Journal Reviewer: *Transportation Research Part B: Methodological; Transportation Research Part E: Logistics and Transportation Review; Transport Policy; Maritime Policy & Management; Computers & Operations Research; Maritime Economics & Logistics; International Journal of Shipping and Transport Logistics; Applied Energy; Computers & Industrial Engineering; Research in Transportation Economics; IEEE Transactions on Engineering Management; International Journal of Logistics; Journal of Cleaner Production; PLOS ONE*