

# **Curriculum Vitae**



Dr Jessica Wang Yuan Associate Professor, Logistics and Supply Chain Management Programme School of Business

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## **Education Qualifications**

2012 Ph.D., Industrial Systems Engineering and Management, National University of Singapore

## **Academic and Professional Experience**

2024 - Present	Associate Professor, School of Business, Singapore University of Social Sciences
2021 - 2024	Senior Lecturer, School of Business, Singapore University of Social Sciences
2018 - 2021	Research Assistant Professor, Centre for Next Generation Logistics, National University of
	Singapore
2018 - 2018	Senior Research Fellow, Centre for Next Generation Logistics, National University of
	Singapore
2014 - 2017	Research Fellow, Department of Industrial System Engineering and Management, National
	University of Singapore
2013 - 2013	Initiative Leader, P&G International Operations Asia
2011 - 2012	Global Management Trainee, ING Banking Netherland

#### **Memberships and Professional Activities**

- Associate Editor: Asia-Pacific Journal of Operational Research (2019 to present)
- Associate Editor: Journal of Simulation (2019 to present)
- General Co-Chair: LOGMS 2019: The 9th International Conference on Logistics and Maritimes Smart Analytics for Maritime and Logistics Systems
- Winter Simulation Conference: PC member
- Journal Reviewer: INFORMS Journal on Computing, Transportation Research B/C/E, IEEE Transactions on Intelligent Transportation Systems, Journal of Production Research, Computers & Operation research.
- Membership: INFORMS, ORSS



#### **Research Interests**

- Data-Driven Intelligent Traffic Planning and Management
- Digital Twin and AI for Logistics and Transportation Systems
- Large Language Models for Operations Research Problems

## **Selected Publications**

## (only recent JCR Q1 Journals and CORE A\* papers are listed)

- Yun Hui Lin, Qingyun Tian, Dongdong He, **Yuan Wang**. Revisiting Stackelberg p-median problem with user preferences. *Computers & Operations Research*, Vol 161, page 106429, 2024.
- Jintao You, **Yuan Wang**\*, Zhaojie Xue. An exact algorithm for the multi-trip container drayage problem with truck platooning, *Transportation Research Part E: Logistics and Transportation Review*, Vol 175, page 103138, 2023.
- Ziyang Xiao, Dongxiang Zhang, Yangjun Wu, Lilin Xu, Yuan Jessica Wang, Xiongwei Han, Xiaojin Fu, Tao Zhong, Jia Zeng, Mingli Song, Gang Chen. Chain-of-Experts: When LLMs Meet Complex Operations Research Problems. *The Twelfth International Conference on Learning Representations (ICLR)* 2023/10/13.
  (CORE A\* Conference)
- Dongxiang Zhang, Ziyang Xiao, Yuan Wang, Mingli Song, Gang Chen. Neural TSP solver with progressive distillation. *Proceedings of the AAAI Conference on Artificial Intelligence*. 37(10), 12147-12154, 2023. (CORE A\* Conference)
- Yun Hui Lin, **Yuan Wang**\*, Loo Hay Lee, Ek Peng Chew. Omnichannel facility location and fulfillment optimization. *Transportation Research Part B: Methodological*, Vol 163, pages 187-209. 2022
- Yun Hui Lin, **Yuan Wang**\*, Loo Hay Lee. Profit-Maximizing Parcel Locker Location Problem under Threshold Luce Model, *Transportation Research Part E: Logistics and Transportation Review*, Vol 157, page 102541, 2021.
- Seyyed Amir Babak; Yuan Wang; Charkhgard, Hadi. Wave Order Picking Under the Mixed-Shelves Storage Strategy: A Solution Method and Advantages. *Computers & Operations Research*, Vol 137, page 105556, 2021.
- Yuan Wang, Linfei Lei, Dongxiang Zhang. Towards delivery-as-a-service: effective neighborhood search strategies for integrated delivery optimization of E-commerce and static O2O parcels. *Transportation Research Part B: Methodological*, Volume 139, 38-63. 2020.
- Albert Vinsensius, Yuan Wang\*, Ek Peng Chew, Loo Hay Lee. Dynamic Incentive Mechanism for Delivery Slot Management in E-Commerce Attended Home Delivery. *Transportation Science*. Volume 54, issue 3, 567-587, 2020.
- Yuan Wang, Ying Liu, Dongxiang Zhang, Loo Hay Lee. Enhancing transportation systems via deep learning: A survey. *Transportation Research: Part C, Emerging Technologies* Volume 99, February 2019, Pages 144-163 (*ESI Highly Cited Paper*)



- Xi Xiang, **Yuan Wang**\*, Loo Hay Lee. Two-stage conflict robust optimization models for cross-dock truck scheduling problem under uncertainty. *Transportation Research Part E: Logistics and Transportation Review*. Volume 144, December 2020, Pages 102123.
- Yunhui Lin, **Yuan Wang**, Dongdong He, Loo Hay Lee, Last-mile delivery: Optimal locker location under multinomial logit choice model. *Transportation Research Part E: Logistics and Transportation Review*, Volume 142, October 2020, Pages 102059.
- Zhenyong Wu, Lina He, Yuan Wang\*, Mark Goh, Xinguo Ming, Knowledge recommendation for product development using integrated rough set-information entropy correction. *Journal of Intelligent Manufacturing*, 31, pages1559–1578(2020). (ESI Highly Cited Paper)
- Yuan Wang, Dongxiang Zhang, Ying Liu, Kian-Lee Tan. Trajectory Forecasting with Neural Networks: An Empirical Evaluation and A New Hybrid Model. *IEEE Transactions on Intelligent Transportation Systems*, PP(99):1-10 · September 2019.
- Yuan Wang\*, Dongxiang Zhang, Lu Hu, Yang Yang, Loo Hay Lee, A Data-Driven and Optimal Bus Scheduling Model with Time-Dependent Traffic and Demand, *IEEE Transactions on Intelligent Transportation Systems*, 2017, P1-10. *(ESI Highly Cited Paper)*
- Yuan Wang\*, Xinjia Jiang, Loo Hay Lee, Ek Peng Chew, Kok Choon Tan. Tree based searching approaches for integrated vehicle dispatching and container allocation in a transhipment hub. *Expert Systems with Applications*, Vol 74, pages139-150,2017
- Gang Hu, Jie Shao, Fenglin Liu, Yuan Wang, Heng Tao Shen. IF-Matching: Towards Accurate Map-Matching with Information Fusion. *IEEE Transactions on Knowledge and Data Engineering*, Vol 29, issue 1, pages 114-127, 2017.
- Yuan Wang, Dongxiang Zhang, Qing Liu, Fumin Shen, Loo Hay Lee, Towards enhancing the last- mile delivery: An effective crowd-tasking model with scalable solutions, *Transportation Research Part E: Logistics and Transportation Review*, Volume 93, September 2016, P279-293.
- Lu Hu, Juanxiu Zhu, Yuan Wang, Loo Hay Lee, Joint Design of Hub Location, Hub Capacity and Fleet Size for Third-party Logistics Networks with Road Congestion Constrains. *Transportation Research Part E: Logistics and Transportation Review*, Volume 118, October 2018, Pages 568-588.
- Dingyu Yang, Jianmei Guo, Zhi-Jie Wang, Yuan Wang, Jingsong Zhang, Liang Hu, Jian Yin. FastPM: An approach to pattern matching via distributed stream processing. *Information Science*, Vol 453, Pages 263-280, 2018

## Awards

- Best Student Paper Award: The 3rd International Symposium on Multimodal Transportation (ISMT 2019). "Last-mile Delivery: Optimal Locker Location Under Multinomial Logit Choice Model."
- **1st Runner-up position** in the 4th edition of the MaritimeONE Case Summit 2023: Coached students from the bachelor's degree in Logistics and Supply Chain Management (SCM).

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