

Enming Liang

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EDUCATION

City University of Hong Kong

Ph.D. Candidate | School of Data Science
Supervisor: Prof. Minghua Chen

Hong Kong

2021/09 – 2025/07

Sun Yat-sen University

B.Eng. | School of Intelligent Systems Engineering
GPA: 91/100, Rank: 1/47

Guangzhou

2016/09 – 2020/07

INTERN EXPERIENCE

Microsoft Research Asia

Research Intern | Advisor: Dr. Lei Song

Beijing

2022/05 – 2022/09

- Data-Driven Optimization for Vehicle Routing Problem
- Multi-Agent Resource Optimization (MARO) platform

PUBLICATIONS

Enming Liang and Minghua Chen. (2024, May). Generative Learning for Solving Non-Convex Problem with Multi-Valued Input-Solution Mapping. In Proceedings of the Twelfth International Conference on Learning Representations.

Enming Liang, Minghua Chen, Steven H. Low. (2023, July). Complexity Homeomorphic Projection to Ensure Neural-Network Solution Feasibility for Optimization over (Non-)Convex Set. In Proceedings of the Fortieth International Conference on Machine Learning. PMLR.

Enming Liang, Zicheng Su, Chilin Fang, Renxin Zhong. (2022, June). OAM: An Option-Action Reinforcement Learning Framework for Universal Multi-Intersection Control. In Proceedings of the AAAI Conference on Artificial Intelligence (Vol. 36, No. 4, pp. 4550-4558).

Renxin Zhong, Kexin Wen, Chilin Fang, Enming Liang. (2022, May). Real-time multi-resource jointed scheduling of container terminals with uncertainties using a reinforcement learning approach. In 2022 13th Asian Control Conference (ASCC) (pp. 110-115). IEEE.

Enming Liang, Kexin Wen, William H.K. Lam, Agachai Sumalee, Renxin Zhong. (2021). An integrated reinforcement learning and centralized programming approach for online taxi dispatching. IEEE Transactions on Neural Networks and Learning Systems, 33(9), 4742-4756.

Zicheng Su, Andy H.F. Chow, Chilin Fang, Enming Liang, Renxin Zhong. (2023). Hierarchical control for stochastic network traffic with reinforcement learning. Transportation Research Part B: Methodological, 167, 196-216.

Andy H.F. Chow, Zicheng Su, Enming Liang, Renxin Zhong. (2021). Adaptive signal control for bus service reliability with connected vehicle technology via reinforcement learning. Transportation Research Part C: Emerging Technologies, 129, 103264.

Zicheng Su, Andy H.F. Chow, Nan Zheng, Yunping Huang, Enming Liang, Renxin Zhong. (2020). Neuro-dynamic programming for optimal control of macroscopic fundamental diagram systems. Transportation Research Part C: Emerging Technologies, 116, 102628.

AWARDS & HONORS

ICAPS Competition 2021 | Silver prize (0.2%) | Dynamic Pickup and Delivery Problem Competition

KDD CUP 2020 | Top 2 (0.1%) | Task 1 in Learning to Dispatch and Reposition on a Mobility-on-Demand Platform

KDD CUP 2020 | Top 5 (0.2%) | Task 2 in Learning to Dispatch and Reposition on a Mobility-on-Demand Platform

Research Tuition Scholarship 2022 & 2023 | CityU

Outstanding Undergraduate Thesis 2020 | (Top 5%)

National Scholarship 2020 | (Top 1%)