Aobo Xu

School of Economics and Management

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Research directions: Reinforcement learning, Large language models, Knowledge graph

Education

2023–Present Ph.D. Student, Management Science and Engineering, China University of Petroleum (East China)

Supervisor: Ling Jian

2020–2023 M.M., Management Science and Engineering, China University of Petroleum (East China)

2016–2020 B.Ed., Education, Tianjin University

Selected Honors and Awards

2024 KDD CUP OAG-Challenge, Honorable Prize (11th, $500), Poster Presentation on KDD Cup OAG-Challenge Workshop at KDD 2024

2024 China University of Petroleum The 6th Qinglan Forum for Doctoral Students, Best Poster Award (¥1,000)

2023 Shandong Provincial Graduate Innovation Achievement Award

2023 "Challenge Cup" National College Student Extracurricular Academic Science and Technology Works Competition, First Prize (¥33,000)

2022 Shandong Province "Internet Plus" College Student Innovation and Entrepreneurship Competition, Silver Award (¥13,000)

2021 "Teddy Cup" Data Analysis Skills Competition, First Prize

Publications

[†] *corresponding author*

Journals

[1] **Aobo Xu**, Ling Jian[†], Yue Yin & Na Zhang. UISA: User Information Separating Architecture for Commodity Recommendation Policy with Deep Reinforcement Learning. *ACM Transactions on Recommender Systems*, 2024.

[2] Min Liu, Yundong Yuan, **Aobo Xu**, Tianhu Deng & Ling Jian [†]. A learning-based artificial bee colony algorithm for operation optimization in gas pipelines. *Information Sciences*, 2025.

[3] Kai Shao, Xinmin Wang, Min Liu, **Aobo Xu** & Ling Jian[†]. Efficient Pump Scheduling for Large-scale Multi-Product Pipelines Using Deep Reinforcement Learning. *International Journal of Adaptive Control and Signal Processing*, 2024.

Conferences

[1] **Aobo Xu**, & Ling Jian[†]. A Deep News Headline Generation Model with REINFORCE Filter. *2023 International Joint Conference on Neural Networks (IJCNN), IEEE*, 2023.

Preprints

[1] **Aobo Xu**, Bingyu Chang, Qingpeng Liu, & Ling Jian[†]. Text-Driven Neural Collaborative Filtering Model for Paper Source Tracing. *arXiv preprint arXiv:2407.17722*, 2024.

Professional Activities

- Reviewer, International Joint Conference on Neural Networks (IJCNN), 2025.

- Reviewer, KDD CUP OAG-Challenge, 2024.