

Yunlin Liu

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Education

Shandong University of Finance and Economics

Sep. 2025 – Present

M.Sc. in Management Science and Engineering

Advisor: Guohua Sun

Shandong University of Finance and Economics

Sep. 2019 – Jun. 2023

B.Sc. in Logistics Management

Research Interests

Logistics optimization and vehicle routing problems, with a particular focus on collaborative vehicle–drone systems, intelligent transportation, and algorithm design for large-scale logistics and supply chain optimization.

Publications

Collaborative vehicle–drone routing for fresh product first-mile pickup in e-commerce environment.

Networks, accepted. (First author)

This study investigates a collaborative routing problem where vehicles and drones jointly serve pickup nodes in fresh e-commerce logistics. The work develops an integrated optimization model and an ALNS algorithm with a weighted objective to balance time and cost. I was primarily responsible for model formulation, algorithm design, and computational experiments, including sensitivity analysis based on real-world data.

Optimization and simulation for an intermodal routing problem with fuzzy soft time windows under multiple uncertainty.

Journal of Shandong University (Natural Science), published. (Fourth author)

This paper addresses an intermodal routing problem under multiple uncertainties and fuzzy time window constraints. The study combines modeling and simulation with a metaheuristic solution approach. My contribution focused on implementing the optimization model and developing the ant colony algorithm, as well as supporting computational experiments.

Honors and Awards

National Contest on Logistics Design for University Students

Apr. 2021

First Prize, Beijing, China

Developed a genetic algorithm in MATLAB to optimize supermarket distribution routes for a real-world logistics scenario. The work focused on improving routing efficiency under practical operational constraints and demonstrated effective performance in large-scale instances.