Minjiao Cheng (程敏娇)

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Institute of Operations Research and Analytics, National University of Singapore,

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EDUCATION

National University of Singapore   Aug 2022

Ph.D. student in Operations Research and Analytics

Beijing Jiaotong University   Sep 2019 - Jun 2022

M.S. in Logistics Management and Engineering

Shanxi University of Finance and Economics   Sep 2015 - Jun 2019

B.A. in Logistics Management (Minor: Business English)

RESEARCH EXPERIENCE

Quality Control Based Perishable Food Supply Chain Scheduling: Models, Algorithms and Application, National Natural Science Foundation of China

- Built the MILP model that optimizes perishable food supply chain scheduling, with the consideration of perishability, uncertainty, and sustainability arising in the supply chain

APS Production Scheduling Algorithm Designing, China Automobile Technology and Research Center Co., Ltd./Tianjin

- Constructed the MILP model of the hybrid flow-shop scheduling problem.
- Designed the two-stage model-based heuristic algorithms using C++ and CPLEX\CBC.

The Demand Analysis and Strategy Research for Urban Loading and Unloading Parking Spots in Beijing, Social Science Foundation of Beijing Municipality

- Conducted sensitivity analysis of the forecasting model and built the simulation models in AnyLogic and AIMSUN.

PUBLICATIONS

- **Cheng, M.**, & Wei, W. (2020). An AHP-DEA approach of the bike-sharing spots selection problem in the free-floating bike-sharing system. Discrete Dynamics in Nature and Society, 2020(3), 1-15.
- Yu, Y., Lu, X., Zhao, T., **Cheng, M.**, Liu, L., & Wei, W. (2021). Heuristic approaches with reinforced parameter tuning for the car sequencing problems with block batches. EURASIP Journal on Wireless Communications and Networking, 1-15.

SKILLS & INTERESTS

Technical Skills: Python, C++, CPLEX, CBC, SPSS, EViews, Tableau, Anylogic, AIMSUN, Latex

Personal Interests: Music, Swimming