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Institute of Operations Research and Analytics
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Songchen Jiang

RESEARCH INTERESTS

Smart logistics and supply chain planning, stochastic programming, data-driven optimization

EDUCATION

Dec. 2022 – present
Joint Ph.D Student
National University of Singapore, Singapore
Supervisor: Prof. Chung-Piaw Teo | Institute of Operations Research and Analytics

Sep. 2021 – present
Ph.D. Student
Northeastern University, Shenyang, China
Supervisor: Prof. Min Huang | College of Information Science and Engineering

Sep. 2019 – Jun. 2021
Master of Engineering in Systems Engineering
Northeastern University, Shenyang, China
Supervisor: Prof. Min Huang | College of Information Science and Engineering
Thesis: Research on The Integrated Forward/Reverse Fourth Party Logistics Network Design Problem Considering Demand Surge

Sep. 2015 – Jun. 2019
Bachelor Degree in Automation
Northeastern University, Shenyang, China
Supervisor: Prof. Min Huang | College of Information Science and Engineering
Thesis: Fourth-Party Logistics Network Design with Demand Surge

PUBLICATIONS

1. Zhang, Y., Gao, Z., Huang, M.*, **Jiang, S.**, Yin, M., Fang, S. C. (2022). Multi-period distribution network design with boundedly rational customers for the service-oriented manufacturing supply chain: a 4PL perspective. *International Journal of Production Research*, 1-20. DOI: `https://doi.org/10.1080/00207543.2022.2140220`.

UNDER REVIEW/WORK IN PROGRESS

1. Jiang, S. (cooperated with Min Huang and Yuxin Zhang). Fourth-Party Logistics Network Design with Demand Surge: A Greedy Scenario-Reduction and Scenario-Price based Decomposition Algorithm. Submitted to *International Journal of Production Economics*.

2. Jiang, S. (cooperated with Min Huang and Yunan Liu). Capacity Planning to Cope with Demand Surges in Fourth-Party Logistics Networks under Chance-Constrained Service Levels. Submitted to *Computers & Operations Research*.

3. Jiang, S. (cooperated with Qihuan Zhang and Min Huang). Warehouse-Retailer Network Planning under Partial Flexibility Strategy to Cope with Demand Surges: A Sample-based Approach. Working paper. Targeted for *Transportation Research Part B: Methodological*.

4. Jiang, S. (cooperated with Chung-Piaw TEO, Zhaolin Li, and Sheng Bi). Robust Base-stock Policy with Constant Lead Time to Cope with Sums of Non-identically Distributed Random Demands: Closed-Form Solution and Application. Working paper.

PROFESSIONAL ACTIVITIES & AFFILIATIONS

Reviewer in *International Journal of Production Economics*
Reviewer in *Chinese Control and Decision Conference*
Member of *Chinese Association for Artificial Intelligence* (CAAI)
Student member of *the Operations Research Society of China* (ORSC)
Student member of *Chinese Society of Optimization, Overall Planning and Economic Mathematics*

TEACHING

1. Applied Stochastic Models and Queues (TA), Ph.D. Course (NEU Summer Course), Northeastern University, 2020.

2. Theory of Production and Inventory (TA), Master Course, Northeastern University, 2021.

3. Introduction to System Engineering (TA), Undergraduate Course, Northeastern University, 2020-2022.

HONOURS

2020 National scholarship for Postgraduates (MOE, China)

2018 Excellence Award of the National College Student Innovation and Entrepreneurship Training Program. (MOE, China)

2018 Silver Award of the Silicon Valley International Invention Festival (SVIIF).

LANGUAGES

Chinese (native), English

INTERESTS

Cooking Chinese food, Basketball and Swimming