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研究兴趣

供应链与库存管理

智能决策与优化

人工智能赋能的运营管理

工作经历

- 2026.02至今 中国石油大学（华东），特任副教授
- 2022.10-2026.01 东京大学（先端科学技术研究中心），特任助理教授
- 2025.11 慕尼黑工业大学（管理学院），访问学者
- 2024.09-2024.12 埃克塞特大学（商学院），访问学者
- 2024.02-2024.03 埃克塞特大学（商学院），利物浦大学（管理学院），访问学者

教育经历

- 2022年，东京大学，工学博士（尖端跨学科工程，Advanced Interdisciplinary Studies）
- 2019年，武汉理工大学，工学硕士（工业工程）
- 2015年，武汉理工大学，工学学士（工业工程）

承担项目

主持日本学术振兴会若手研究，东京大学UTEC Young Researchers' Challenge Support Program，东京大学-三菱食品株式会社校企合作研究，山东省自然科学基金项目，中国石油大学（华东）自主创新科研计划项目五项。

1. JSPS Grant-in-Aid for Early-Career Scientists (WAKATE) Grant Number 25K17791, *Building supply chain resilience: artificial intelligence in proactive and reactive disruption management* (2025-2026, 主持)
2. 东京大学-三菱食品株式会社库存管理优化项目 (2025-2026, 主持)
3. UTEC Young Researchers' Challenge Support Program, *Modelling and optimization of supply chain systems using stylized models* (2023-2024, 主持)
4. 中国石油大学（华东）自主创新科研计划项目 (2026-2029, 主持)
5. 山东省自然科学基金青年科学基金项目（C类） (2026-2029, 主持)

科研成果

已发表期刊论文

- [1] **Geng Cui**, Stephen M. Disney*, Naoto Imura, and Katsuhiro Nishinari, “Supply chain dynamics under the proportional order-up-to replenishment policy: the role of lead time.” *European Journal of Operational Research* (2026).
- [2] **Geng Cui**, Stephen M. Disney*, Naoto Imura, and Katsuhiro Nishinari, “Coordinating supply chains with order smoothing and cooperative game theory.” *International Journal of Production Economics* (2026), 110076.
- [3] **Geng Cui***, Naoto Imura, and Katsuhiro Nishinari, “Should firms invest in demand forecasting? Benefits of improving forecasting accuracy on order smoothing, dual-sourcing and multi-stage supply chain problems.” *International Journal of Production Research* (2025), 1-22.
- [4] **Geng Cui***, Naoto Imura, Katsuhiro Nishinari, and Takahiro Ezaki, “The effect of local forecasting improvements on supply chain performance.” *European Journal of Industrial Engineering* (2026), 22(2).
- [5] **Geng Cui***, Naoto Imura, Katsuhiro Nishinari, and Takahiro Ezaki, “On Order Smoothing Interpolating the Order-Up-To and Constant Order Policies.” *Omega* (2025), 103326.
- [6] **Geng Cui***, Daichi Yanagisawa, and Katsuhiro Nishinari. “Learning from experimental data to simulate pedestrian dynamics.” *Physica A: Statistical Mechanics and its Applications* 623 (2023): 128837.
- [7] **Geng Cui***, Daichi Yanagisawa, and Katsuhiro Nishinari. “Incorporating genetic algorithm to optimise initial condition of pedestrian evacuation based on agent aggressiveness.” *Physica A: Statistical Mechanics and its Applications* 583 (2021): 126277.
- [8] **Geng Cui***, Daichi Yanagisawa, and Nishinari Katsuhiro. “A Data Driven Approach to Simulate Pedestrian Competitiveness Using the Social Force Model.” *Collective Dynamics* 6 (2021): 1-15.
- [9] Cunrong Li, Bhaba R. Sarker*, **Geng Cui**, Xiaolong Chen, Wanli Luo. “An optimal procurement policy for multiple consumable accessories with different lifespan distributions” *Computers & Industrial Engineering* 127 (2019): 143-157.

工作期刊论文

- [1] Qing Zhu, **Geng Cui**, and Stephen M. Disney, “When one-size-fits-all procurement contract fails: The role of supply chain structure in price risk hedging.” **1st Round Revision** in *IMA Journal of Management Mathematics*.
- [2] Qing Zhu, Stephen M. Disney, and **Geng Cui***, “Separate but coordinated: Pricing, replenishment, and profit redistribution in a two-stage supply chain.” **1st Round Revision** in *International Journal of Production Economics*.

国际会议

- [1] **Geng Cui**, “Improving Inventory Decisions without Explicit Objectives: An Inverse Reinforcement Learning Approach.” In *2026 INFORMS Annual Meeting*, November 1–4, 2026 in San Francisco, CA, USA (as an invited speaker).
- [2] **Geng Cui**, Naoto Imura, and Katsuhiro Nishinari, “Deep reinforcement learning reproduces order smoothing in an interactive two-stage supply chain.” In *2025 INFORMS International Conference*, July 20–23, 2025 in Singapore.
- [3] **Geng Cui**, Stephen M. Disney, Naoto Imura, and Katsuhiro Nishinari, “Shapley Value-Based Profit Allocation for Collaborative Bullwhip Effect Mitigation.” In *2024 INFORMS Annual Meeting*, October 20-23, 2024 in Seattle, WA, USA (Accepted but did not attend due to scheduling conflicts).
- [4] Akihito Nagahama, Kensuke Tanaka, Claudio Feliciani, **Geng Cui**, and Takahiro Wada. “Effects of Urban Landscape and Soundscape on Driving Behavior.” In *2022 IEEE Conference on Cognitive and Computational Aspects of Situation Management (Cog SIMA)*, pp. 84-88. IEEE, 2022.

[5] **Geng Cui**, Daichi Yanagisawa, and Katsuhiro Nishinari. “A Data Driven Approach to Simulate Pedestrian Competitiveness Using the Social Force Model.” 2020 Pedestrian and Evacuation Dynamics Conference, University of Melbourne, 2020.

[6] **Geng Cui**, Daichi Yanagisawa, and Katsuhiro Nishinari. “The effect of inflow rate and conflict around the exit on evacuation efficiency.” The Mathematical Society of Traffic Flow, Nagoya University, 2020.

学术兼职

IEEE Transactions on Intelligent Transportation Systems、Physica A、Omega、IJPE、C&IE
等期刊匿名审稿人。