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研究兴趣

供应链与库存管理

竞合管理

人工智能与决策

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（尖端跨学科工学，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三项。

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)

科研成果

已发表期刊论文

- [1] **Geng Cui***, Naoto Imura, and Katsuhiko 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.

[2] **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).

[3] **Geng Cui***, Naoto Imura, Katsuhiro Nishinari, and Takahiro Ezaki, “On Order Smoothing Interpolating the Order-Up-To and Constant Order Policies.” *Omega* (2025), 103326.

[4] **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.

[5] **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.

[6] **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.

[7] 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

[8] **Geng Cui**, Stephen M. Disney, Naoto Imura, and Katsuhiro Nishinari, “Coordinating supply chains with order smoothing and cooperative game theory.” **3rd Round Revision** in *International Journal of Production Economics*.

[9] **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.” **2nd Round Major Revision** in *European Journal of Operational Research*.

[10] **Geng Cui**, Naoto Imura, and Katsuhiro Nishinari, “Decentralised Training for Cooperative Inventory Control in a Two-Stage Supply Chain.” Submitted to *International Journal of Production Research*.

国际会议

[1] **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.

[2] **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).

[3] 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.

[4] **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.

[5] **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等期刊匿名审稿人。