

Yun Huang



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Academic Qualifications

2006-2010	Ph.D / Logistics and Supply Chain Management / The University of Hong Kong
2004-2006	Master / Operations Research and Cybernetics / Zhejiang University, Hangzhou, China
2000-2004	Bachelor / Information and Computational Science / Southeast University, Nanjing, China

Working Experience

2023-Now	Macau University of Science and Technology / School of Business / Associate Professor
2016-2023	Macau University of Science and Technology / School of Business / Associate Professor
2011- 2016	Macau University of Science and Technology / School of Business / Assistant Professor
2010 - 2011	The Hong Kong Polytechnic University / School of Hotel and Tourism Management / Research Associate

Teaching Activities

Business Statistics; Purchasing and Supply Management; Decision Modeling; Project Management

Research Areas

Supply chain management; Green supply chain management; Scheduling; Optimization; Game theory; Tourism management.

Selected Publications

Journal Papers:

J.Liu, **Y. Huang*** & X. Li. 2026. Technology upgrade in the prepared dishes supply chain driven by media attention: an examination with a four-party evolutionary game model. 4OR-A Quarterly Journal of Operations Research. <https://doi.org/10.1007/s10288-026-00618-1>.

- X. Yang, **Y. Huang***. 2026. Impact of employee acceptance of emerging technologies on sustainable performance of logistics enterprises: mediating role of green self-efficacy and behavior. *Journal of Enterprise Information Management*. 1-44.
- K Wang, **Y. Huang***. 2025. Integrated multi-factory production scheduling and vehicle routing with factory eligibility. *Expert Systems with Applications*.
- Y. Huang**, Y Wang, J Chen. 2025. The impacts of social media, gaming and non-gaming memorable tourism experiences on temporal destination revisit intention. *Sage Open*. 15(4), Article 21582440251395795.
- Y. Huang**, Y. Feng, K. Wang, & Q. Hou. 2025. Supplier changes, operational risk and enterprise green innovation: Moderation role of market competition. *Journal of Business & Industrial Marketing*, 41(2), 191–212.
- Y. Huang**, J. Wei, K. Wang, Q. Hou. 2025. The role of green innovation on green restaurant patronage intention: urban vs. rural residents. *Front. Sustain. Food Syst*. 9:1506984.
- Y. Huang**, Z Fang, K Wang. 2024. How to subsidize ecotourism in a tourism supply chain? An examination with a three-party evolutionary game model. *Journal of Cleaner Production*, 477, 143878.
- Y. Liu, C. Ma, **Y. Huang***. 2024. An Internet of Things-Based Production Scheduling for Distributed Two-Stage Assembly Manufacturing with Mold Sharing. *Machines*, 12(5), 310.
- S. Zhang, Q. Yu, S Wan, H. Cao, **Y Huang***. 2024. Digital supply chain: literature review of seven related technologies. *Manufacturing Review*. 11, 8.
- J.R. Chen, **Y. Huang***, E. Q. Wu, R. Ip, K. Wang. 2023. How does rural tourism experience affect green consumption in terms of memorable rural-based tourism experiences, connectedness to nature and environmental awareness? *Journal of Hospitality and Tourism Management*, 54, 166-177.
- Y. Xiu, D. Li, M. Zhang, H. Deng, R. Law, **Y. Huang***, E.Q. Wu, X. Xu. 2023. Finite-Time Sideslip Differentiator-Based LOS Guidance for Robust Path Following of Snake Robots, *IEEE/CAA Journal of Automatica Sinica*, 10(1), 1–15.
- Y. Huang**, K. Gao, K. Wang, H. Lv, F. Gao. 2022. Analytical target cascading for multi-level supply chain decisions in cloud perspective. *Industrial Management & Data Systems*. 122(6), 1480-1498.
- J. Yang, Y. Zhang, **Y. Huang***, J. Lv, K. Wang. 2022. Multi-objective optimization of milling process: exploring trade-off among energy consumption, time consumption and surface roughness, *International Journal of Computer Integrated Manufacturing*. Manuscript. DOI: 10.1080/0951192X.2022.2078511.
- Z. Wei, **Y. Huang***. 2022. Supply Chain Coordination under Carbon Emission Tax Regulation Considering Greening Technology Investment, *International Journal of Environmental Research and Public Health*. 19(15), 9232.
- K. Wang, Q. Hu, **Y. Huang***, M. Luo, L. Zhou. 2021. A survey on meta-heuristics for solving disassembly line balancing, planning and scheduling problems in remanufacturing. *The International Journal of Management Science - Omega*. 57, 100719.
- K. Gao, Z. He, **Y. Huang**, P. Duan, P. Suganthan. 2020. A survey on meta-heuristics for solving disassembly line balancing, planning and scheduling problems in remanufacturing. *Swarm and Evolutionary Computation*. 57, 100719.
- K. Gao, **Y. Huang**, A. Sadollah, L. Wang. 2020. A Review of Energy-efficient Scheduling in Intelligent Production Systems. *Complex & Intelligent Systems*. 6 (2), 237-249. (H-cited)

Y. Huang, K. Wang , K. Gao, T. Qu, H. Liu. 2019. Jointly Optimizing Microgrid Configuration and Energy Consumption Scheduling of Smart Homes. *Swarm and Evolutionary Computation*. 48, 251-261.

X. Zhang, Z. Li, **Y. Huang**, H. Tang. 2017. Performance Analysis of Reverse Auction Mechanisms Based on Petri Nets. *Advances in Mechanical Engineering*. 9(9), 1-17.

Y. Huang, K. Wang, T. Zhang, C. Pang. 2016. Green Supply Chain Coordination with Carbon Emissions Management: A Game-theoretic Approach. *Journal of Cleaner production*. 112, 2004-2014.

K. Wang, **Y. Huang***, H. Qin. 2016. A Fuzzy Logic-based Hybrid Estimation of Distribution Algorithm for Distributed Permutation Flowshop Scheduling Problems under Machine Breakdown. *Journal of the Operational Research Society*. 67, 68-82.

S. Deng, R. Aydin, C.K. Kwong, **Y. Huang**. 2014. Integrated Product Line Design and Supplier Selection: A Multi-objective Optimization Paradigm. *Computers and Industrial Engineering*. 70, 150–158.

Yun Huang, H.Y. Song, G.Q. Huang, J. M. Lou. 2012. A Comparative Study of Tourism Supply Chains with Quantity Competition. *Journal of Travel Research*. 51, 717-729.

K. Wang, S.H. Choi, H. Qin, **Y. Huang**. 2012. A cluster-based scheduling model using SPT and SA for dynamic hybrid flow shop problems. *International Journal of Advanced Manufacturing Technology*. 1-16, December.

Y. Huang, G.Q. Huang. 2011. Coordinating Pricing and Inventory Decisions in a Multi-Level Supply Chain: A Game-Theoretic Approach. *Transportation Research Part E: Logistics and Transportation Review*. 47(2), 115-129.

Y. Huang, G.Q. Huang. 2010. Price Coordination in a Three-Level Supply Chain with Different Channel Structures Using Game-Theoretic Approach. *International Journal of Management Science and Engineering Management (MSEM)*. 5(2), 83-94.

Y. Huang, G.Q. Huang. 2010. Joint Pricing and Inventory Replenishment Decisions in a Multi-level Supply Chain. *Engineering letter*. 18(4), EL_18_4_09.

Y. Huang, G.Q. Huang. 2010. Price Competition and Coordination in a Multi-echelon Supply Chain. *IAENG Engineering letter*. 18(4), EL_18_4_10.

Book Chapters:

Y. Huang. Price Competition in Tourism Supply Chain with Hotels and Travel Agency. Chapter 69 in *LTLGB*, 2013, 489-495.

Y. Huang, G.Q. Huang. Integrated Supplier Selection, Pricing and Inventory Decisions in a Multi-level Supply Chain, *Decision-Making for Supply Chain Integration*, Chapter 3, 2012.

Y. Huang, G.Q. Huang. Nash Game-Theoretic Model for Optimizing Pricing and Inventory Policies in a Three-Level Supply Chain. *Electrical Engineering and Applied Computing. Lecture Notes in Electrical Engineering*. 2011.

Selected Conference Proceedings:

F. Gao, R. Ip, **Y. Huang**, H.M. Jiang. 2022. Evolutionary Game between the Crowdfunding Initiators and Crowdfunding Investors. *Proceedings of IEEE 9th International Conference on Industrial Engineering and Applications (ICIEA)*.

- J.R. Chen, **Y. Huang**. 2022. Influence of the Dimensions of Rural Tourism Experience on Green Consumption in China. Proceedings of IEEE 9th International Conference on Industrial Engineering and Applications (ICIEA).
- Y. Huang**, K.F. Ip, W. Liang. 2019. Game Model for Optimizing Microgrid PPP Project. Proceedings of IEEE 6th International Conference on Industrial Engineering and Applications (ICIEA).
- Y. Huang**, S.Y. Wang. 2016. Multi-level Green Supply Chain Coordination with Different Power structures and Channel Structures Using Game-theoretic Approach. Proceedings of the World Congress on Engineering and Computer Science. 1, 1100-1106.
- Y. Huang**. 2013. Decentralized Configuration, Pricing and Remanufacturing Decisions in a Multi-level Green Supply Chain. Proceedings of the World Congress on Engineering and Computer Science. 2, 1127-1136.
- Y. Huang**. 2013. Coordinating Pricing and Replenishment Strategies in a Three-level Supply Chain. Proceeding of the International Conference on Computers and Industrial Engineering (CIE43). 1, 132-136.
- Y. Huang**. 2012. Price Competition in Tourism Supply Chain with Hotels and Travel Agency. Proceeding of the International Conference on Low-carbon Transportation and Logistics, and Green Buildings. 1, 419-424.
- Y. Huang**, G.Q. Huang, X.N. Liu. 2012. Cooperative Game-theoretic Approach for Supplier Selection, Pricing and Inventory Decisions in a Multi-level Supply Chain. Proceeding of the International Multiconference of Engineers and Computer Scientists. 2, 1402-1406.
- Y. Huang**, G.Q. Huang. 2010. Game-Theoretic Coordination of Marketing and Inventory Policies in a Multi-Level Supply Chain (Best student paper award). Proceedings of the World Congress on Engineering.
- Y. Huang**, G.Q. Huang. 2010. Game-theoretic Price Coordination in a Three-Level Supply Chain with Different Channel Structures. Proceedings of International Conference of Manufacturing Engineering and Engineering Management.
- Y. Huang**, G.Q. Huang. 2009. Game Theory Approach for Coordinating Marketing and Inventory Policies in a Two-Echelon Supply Chain with Retailers Competition. Proceedings of INFORMS International Conference on Service Science.
- Y. Huang**, G.Q. Huang. 2008. Optimal Pricing for a Three-Level Supply Chain with Different Channel Structures Using Game-theoretic Approach. Proceedings of Hamburg International Conference of Logistics.

Research Project

2012 – 2013	Comparative Studies of Tourism Supply Chains with Price Competition/ Project Investigator/ Funded by Macau University of Science and Technology
2012 – 2013	Development of Macau Tourism Supply Chain / Project Investigator/ Funded by Macau Foundation
2014–2017	Petri-net Based Discrete Events System Asymptotic Stability Controller Synthesis and Optimization/ Project Co-Investigator/ Funded by Macau Science and Technology Development Foundation
2016-2019	Studies on the joint planning and scheduling of multiple hospital operating rooms under unconventional emergencies / Project Co-Investigator / The National Natural Science Foundation of China

2018–2020	Jointly Optimization for Coordinated Microgrid Configuration and Energy Consumption Scheduling of Smart Homes by a Stackelberg Game/ Project Investigator/Funded by Macau University of Science and Technology
2023-2024	Mode Sharing and Distributed Assembly Flow-shop Scheduling Problem with Internet of Things/ Project Investigator/Funded by Macau University of Science and Technology

Science Project

2013	Supply Chain Management and Logistics Information System Summer Camp/ Project Investigator/Funded by Macau Science and Technology Development Foundation
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Professional Qualification

CMILT Chartered Member

Member of Operations Research Society of China

ICIEA committee member

MSIE – Committee member