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:

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. LectureNotes 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 Microgird 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 DifferentChannel 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 Discreet 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

Professional Qualification

CMILT Chartered Member

Member of Operations Research Society of China

ICIEA committee member

MSIE – Committee member