

Professor

MSB

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: Wai Long, Taipa, Macau

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

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:

JR. Chen, \*, 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. 2022. Finite-Time Sdeslip Differentiator-Based LOS Guidance for Robust Path Following of Snake Robots, IEEE/CAA Journal of Automatica Snica, 10(1), 1 - 15.

, 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, \*, 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: 10.1080/0951192X2022.2078511.

Z Wei, \*. 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, , 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, 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 , A. Sadollah, L. Wang. 2020. A Review of Energy-efficient Scheduling in

, 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, , H. Tang. 2017. Performance Analysis of Reverse Auction Mechanisms Based on Petri Nets. Advances in Mechanical Engineering. 9(9), 1-17.

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, 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, CK. Kwong, 2014. Integrated Product Line Design and Supplier Selection: A Mul1F1 1595.32 1sTQ46q.000008871 0 595.32 841.92 reW\* nBT/ F5 11.04 Tf1 0 0 1 159.74 660

- , GQ. 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.
- , 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.
- , GQ. Huang 2010. Joint Pricing and Inventory Replenishment Decisions in a Multilevel Supply Chain. Engineering letter. 18(4), EL\_18\_4\_09.
- , 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:** 

- . Price Competition in Tourism Supply Chain with Hotels and Travel Agency. Chapter 69 in LTLCB, 2013, 489-495.
- GQ. Huang. Integrated Supplier Selection, Pricing and Inventory Decisions in a Multilevel Supply Chain, Decision-Making for Supply Chain Integration, Chapter 3, 2012.
- , GQ. 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, , H.M. Jang. 2022. Evolutionary Game between the Crowdfunding Initiators and Crowdfunding Investors. Proceedings of IEEE 9th International Conference on Industrial Engineering and Applications (ICIEA).
- JR. Chen, . 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).
- , 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).
- , 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.
- 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.
- 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.
- 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.

, 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.

, GQ. 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.

, GQ. 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.

, GQ. 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.

, GQ. Huang. 2008. Optimal Pricing for a Three-Level Supply Chain with DifferentChannel Structures Using Game-theoretic Approach. Proceedings of Hamburg International Conference of Logistics.

2012-2013	Comparative Studies of Tourism Supply Chains with Price Competition/ Project Investigator/Funded by Macau University of Science and
2012-2013	Technology Development of Macau Tourism Supply Chain / Project Investigator/Funded by Macau Foundation
2014–2017	Petri-net Based Discreet Events System Asymptotic Stability