

# 唐華軍



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部門/領域：決策科學系/供應鏈與商業分析

## 教育背景

2005-2009 香港理工大學，哲學博士，管理科學與工程

2002-2005 南京大學，理學碩士，運籌學與控制論

1998-2002 浙江師範大學，理學學士，數學與應用數學

## 工作經驗

2021-現在 教授/澳門科技大學

2014-2021 副教授/澳門科技大學

2009-2014 助理教授/澳門科技大學

## 教學活動

管理科學、商業分析、供應鏈管理、決策優化

## 研究領域

供應鏈金融、商業分析與決策、全渠道供應鏈

## 代表性期刊論文

- 1) Lin, XX, Xiong, YL, Wang, YQ, **Tang, HJ**, Wen, XW. The influence of consumer ethnocentrism and cosmopolitanism on purchase intentions of Chinese pre-made dishes. *Journal of Retailing and Consumer Services*, 2025, 82, 104132.
- 2) Yao, Y, Geng, SQ, Chen, JH, Shen, F, **H. Tang**. Optimal Decision-Making in a Green

Supply Chain Duopoly: A Comparative Analysis of Subsidy Strategies with Data-Driven Marketing. *Mathematics*, 2025, 13(6), 965. (SCI)

- 3) Zeng F., Pang C., **H. Tang**. The impacts of natural marine disasters on shipping industry in China: An event study. *Journal of Sea Research*, 2025, 204. (SCI)
- 4) Ran H.J., He D.C., **H. Tang**. Network optimization of fresh products cold chain considering supply disruption and demand fluctuation under the dual-carbon policy. *Mathematics*, 2025, 13(9), 1539. (SCI)
- 5) Y Huang, P He, TCE Cheng, S Xu, C Pang, **H. Tang**. Optimal strategies for carbon emissions policies in competitive closed-loop supply chains: a comparative analysis of carbon tax and cap-and-trade policies. *Computers & Industrial Engineering*, 2024, 195, 110423. (SCI)
- 6) Y Xu, Y Tian, C Pang, **H. Tang**. Manufacturer vs. retailer: a comparative analysis of different government subsidy strategies in a dual-channel supply chain considering green quality and channel preferences. *Mathematics*, 2024, 12 (10), 1433. (SCI)
- 7) L Zeng, H Hu, H Tang, X Zhang, D Zhang. Carbon emission price point-interval forecasting based on multivariate variational mode decomposition and attention-LSTM model. *Applied Soft Computing*, 2024, 157, 111543. (SCI)
- 8) Zeng, F., Pang, C., **H. Tang**. Sensors on internet of things systems for the sustainable development of smart cities: a systematic literature review, *Sensors*, 2024, 24 (7), 2074. (SCI)
- 9) J Chen, Y Tian, FTS Chan, **H. Tang**, PH Che. Pricing, greening, and recycling decisions of capital-constrained closed-loop supply chain with government subsidies under financing strategies. *Journal of Cleaner Production*, 2024, 438, 140797. (SCI)
- 10) Y Huang, Y Chen, C Pang, **H. Tang**. Optimisation of evacuation and emergency materials distribution under natural disaster. *International Journal of Shipping and Transport Logistics*, 2024, 18(2), 138-164. (SSCI)
- 11) Zhang, L., Guan, L., Long, D.Z., Shen, H., **H. Tang**. Who is better off by selling extended warranties in the supply chain: the manufacturer, the retailer, or both? *Annals of Operations Research*, 2023, 1-27. (SCI)
- 12) Zeng, F., Pang, C., **H. Tang**. Sensors on the internet of things systems for urban disaster management: a systematic literature review. *Sensors*, 2023, 24 (7), 2074. (SCI)
- 13) Xu, S.Y., **H. Tang**, Huang, Y.X. Inventory competition and quality improvement decision in dual-channel supply chain with data-driven marketing. *Computers and Industrial*

*Engineering*, 2023, 183,109452. (SCI)

- 14) Wang, H., Pang, C., **H. Tang**. Pricing and carbon-emission-reduction decisions under the bops mode with low-carbon preference from customers. *Mathematics*, 2023, 11(12), 2736. (SCI)
- 15) Xu, S.Y., **H. Tang**, Huang, Y.X., Decisions of pricing and delivery-lead-time in dual-channel supply chains with data-driven marketing using internal financing and contract coordination, *Industrial Management & Data Systems*, 2023, 123 (3), 1005-1051. (SCI)
- 16) Chen, Y.W., Liu, X.J., Huang, K.Q., **H. Tang**. Pricing and service effort decisions of book dual-channel supply chains with showrooming effect based on cost-sharing contracts, *Sustainability*, 2022, 14(18), 11278. (SCI, SSCI)
- 17) H Zhao, **H. Tang**, C Pang, H Jiang. A Markov chain model for approximating the run length distributions of Poisson EWMA charts under linear drifts. *Mathematics*, 2022, 10(24), 4786.
- 18) Wang, Xiangping, Lai, Ivan Kai Wai, **H. Tang**, Chuan Pang, Coordination analysis of Sustainable dual-channel tourism supply chain with the consideration of the effect of service quality, *Sustainability*, 2022, 14(11), 6530. (SCI, SSCI)
- 19) Huimin Jiang; Farzad Sabetzadeh; Zhijun Lin; **H. Tang**, Nonlinear time series fuzzy regression for developing explainable consumer preferences models based on online comments, *IEEE Transactions on Fuzzy Systems*, 2022, 30(10): 4460-4470. (SCI)
- 20) Xu, Senyu, **H. Tang**, Lin, Zhijun, Lu, Jing, Pricing and sales-effort analysis of dual-channel supply chain with channel preference, cross-channel return and free riding behavior based on revenue-sharing contract, *International Journal of Production Economics*, 2022, 249. (SCI, SSCI)
- 21) Yang, Shujun, Lai, Ivan Kai Wai, **H. Tang**, Pricing and Contract Coordination of BOPS Supply Chain Considering Product Return Risk, *Sustainability*, 2022, 14(9). (SCI, SSCI)
- 22) X.Y. Jin, **H. Tang** and Y.X. Huang, Dynamic stochastic optimization of emergent blood collection and distribution from supply chain perspective, *Complexity*, 2021, 5532672. (SCI, SSCI)
- 23) Zhong, Y.G., Lai, Ivan Kai Wai, Guo, F.F., **H. Tang**, Research on government subsidy strategies for the development of agricultural products e-commerce, *Agriculture-basel*, 2021, 11(1). (SCI, SSCI)
- 24) Wu, Z.L., Lai, Ivan Kai Wai, **H. Tang**, Evaluating the sustainability issues in tourism development: an adverse-impact and serious-level analysis, *Sage Open*, 2021, 11(4). (SSCI)
- 25) S. Y. Xu, **H. Tang** and Z.J. Lin, Inventory and ordering decisions in dual-channel supply

chains involving free riding and consumer switching behavior with supply chain financing, *Complexity*, 2021, 5530124. (SCI, SSCI)

- 26) Xu, M., Lai, I.K.W., **H. Tang**. From corporate environmental responsibility to purchase intention of Chinese buyers: The mediation role of relationship quality. *Journal of Consumer Behaviour*, 2021, 20(2), pp. 309–323. (SSCI)
- 27) Yang S.J., **Tang H.J.**, Li Yi. Research on Pricing and Decision Making of BOPS Omni-channel Supply Chain with the Risk of Returning. *Technoeconomics & Management Research*, 2021, 3(3): 112-118.
- 28) Zhong, Y., Lai, I.K.W., Guo, F., **H. Tang**. Effects of partnership quality and information sharing on express delivery service performance in the E-commerce industry. *Sustainability*, 2020, 12(20), pp. 1–19, 8293. (SCI, SSCI)
- 29) Zhang, X., Lai, I.K.W., Fu, J., **H. Tang**. Hazard analysis of bidder collusion in reverse auctions based on petri nets. *IEEE ACCESS*, 2020(8): 89546-89561. (SCI, SSCI)
- 30) Zhong, Y., Guo, F., **H. Tang**, Chen, X. Research on coordination complexity of e-commerce logistics service supply chain. *Complexity*, 2020, 7031543. (SCI, SSCI)
- 31) Liu, Jie, Chen, Xumei, Zhang, Yixin, Fang, Zengli, **H. Tang**, Model design and application of regional hub-and-spoke freight network, *Journal of Harbin Institute of Technology*, 2020, 52(9):1-7 (EI)
- 32) Zhong, Y., F. Guo, Z. Wang, and **H. Tang**. Coordination Analysis of Revenue Sharing in E-commerce Logistics Service Supply Chain with Cooperative Distribution. *Sage Open*, 2019, 9(3): 1-15. (SSCI)
- 33) Hua, M., L. Wai, and **H. Tang**. Analysis of Advertising and a Points-Exchange Incentive in a Reverse Supply Chain for Unwanted Medications in Households Based on Game Theory. *International Journal of Production Economics*, 2019(217): 259-268. (SCIE, SSCI)
- 34) Chen, G., and **H. Tang**. A Research on the Innovative Mechanism of the Business Models of Supply Chain Enterprises. *Science Research Management*, 2018, 39(12): 113-122. (CSSCI)
- 35) Zhang, X., **H. Tang**, D. Yang, M. El-Meligy, and Z. Li. Comparative Analysis of Sequential and Combinatorial Auctions Based on Petri Nets. *IEEE Access*, 2018(6): 38071-38085. (SCI)
- 36) Hu, W., and **H. Tang**. Study of Online Supply Chain Financing Modes Based on B2B Platforms. *Financial Theory and Practice*, 2017(11): 43-50. (CSSCI)
- 37) Chen, G., and **H. Tang**. Research on Open Innovative Mechanism of Supply Chain

Management Based on Theoretical Hypothesis of “Zero Marginal Cost” under IOT. *China Business and Market*, 2017, 31(8): 105-115. (CSSCI)

- 38) Hua, M., **H. Tang**, and I. Lai. Game Theoretic Analysis of Pricing and Cooperative Advertising in a Reverse Supply Chain for Unwanted Medications in Households. *Sustainability*, 2017, 9(10): 1902. (SCI, SSCI)
- 39) Zhang, X., Z. Li, Y. Huang, and **H. Tang**. Performance Analysis of Reverse Auction Mechanisms Based on Petri Nets. *Advances in Mechanical Engineering*, 2017, 9(9): 1–17. (SCI)
- 40) Chen, Y., **H. Tang**, T. Nie, and X. Lin. Integration of Congestion-Related Emissions in a Transit Bus Scheduling Problem during Rush Hours. *Environmental Engineering and Management Journal*, 2015, 14(8): 1849-1856. (SCI)
- 41) **Tang, H.**, A. Elalouf, E. Levner, and T. Cheng. Efficient Computation of Evacuation Routes on a Three-Dimensional Geometric Network. *Computers & Industrial Engineering*, 2014(76): 231-242. (SCI)
- 42) **Tang, H.**, C. Pang, and C. Ng. Optimization of Vehicle Population and Reduction of CO<sub>2</sub> Emission. *International Journal of Shipping and Transport Logistics*, 2014, 6(4): 412-421. (SSCI)
- 43) Amir, E., L. Eugene, and **H. Tang**. An Improved FPTAS for Maximizing the Weighted Number of Just-in-Time Jobs in a Two-Machine Flow Shop Problem. *Journal of Scheduling*, 2013, 16(4): 429–435. (SCI)
- 44) **Tang, H.**, Z. Sun, and X. Xu. The Influence of Perceived Reward for Creation, Exploitative Learning and Creative Performs to Job Performance. *Advances in Information Science and Service Science*, 2013, 5(3): 340-346. (EI)
- 45) **Tang, H.** A Note on the Nestedness Property for Ordered Median Problems in Tree Networks. *Journal of Systems Science and Complexity*, 2013, 26(3): 335-340. (SCI)
- 46) **Tang, H.**, T., Cheng, and C. Ng. A Note on the Sub-Tree Ordered Median Problem in Networks Based on Nestedness Property. *Journal of Industrial Management and Optimization*, 2012, 8(1): 41-49. (SCI)
- 47) **Tang, H.**, T. Cheng, and C. Ng. Multi-Facility Ordered Median Problems in Directed Networks. *Journal of Systems Science and Complexity*, 2011, 24(1): 61-67. (SCI)
- 48) **Tang, H.**, T. Cheng, and C. Ng. Multi-Facility Convex Ordered Median Problems in Networks. *Computers & Industrial Engineering*, 2009, 57(3): 707-712. (SCI)
- 49) **Tang, H.**, and Y. Chen. Upper Signed Domination Number. *Discrete Mathematics*, 2008,

308(15): 3416-3419. (SCI)

- 50) **Tang, H.**, and Y. Chen. Acyclic Domination Number and Minimum Degree in 2-Diameter-Critical Graphs. *Ars Combinatoria*, 2008(86): 51-56. (SCI)

#### 會議論文

1. Yao, Y., **Tang, H.** Duopoly competition in green supply chains: decision optimization based on data-driven marketing and government subsidies. *Annual International Conference for Digital Intelligence Logistics and Supply Chain Management (DILSCM2024)*, 2024.
2. Mo, S.L., **Tang, H.** Research on supply chain network design and warehouse location simulation optimization. *Annual International Conference for Digital Intelligence Logistics and Supply Chain Management (DILSCM2024)*, 2024.
3. Huang, Y.X., **Tang, H.** Optimal strategies for carbon emission policies in competitive closed-loop supply chains: a comparative analysis of carbon tax and cap-and-trade policies. *Annual International Conference for Digital Intelligence Logistics and Supply Chain Management (DILSCM2023)*, 2023.
4. Yang, T, **Tang, H.** Optimal strategies for credit sales competition and service efforts in dual-channel supply chain coordination. *Annual International Conference for Digital Intelligence Logistics and Supply Chain Management (DILSCM2023)*, 2023.
5. Zhan, Y.Y., **Tang, H.** A dual-path research on the effect of green supply chain on supply chain performance under the targets of carbon peaking and carbon neutrality. *Annual International Conference for Digital Intelligence Logistics and Supply Chain Management (DILSCM2023)*, 2023.
6. Lu, W.D., **Tang, H.** Optimization of staffing allocation scheme for logistics center with extremely unbalanced demand based on NSGA-II algorithm. *Annual International Conference for Digital Intelligence Logistics and Supply Chain Management (DILSCM2023)*, 2023.
7. Xu. Y., **Tang, H.** Research on dual-channel green supply chain decision-making considering different government subsidy strategies. *Annual International Conference for Digital Intelligence Logistics and Supply Chain Management (DILSCM2023)*, 2023.

8. Huang, Y.X., **Tang, H.** Pricing decisions of competitive supply chain under carbon emission policy. *Annual International Conference for Chinese Scholars in Industrial Engineering (CSIE2023)*, 2023.
9. He, P.F., **Tang, H.** Joint pricing and inventory decision of dual channel supply chain under demand ambiguity: based on a fuzzy optimization method, *Annual International Conference for Chinese Scholars in Industrial Engineering (CSIE2023)*, 2023.
10. Shujun Yang, **Tang, H.** Research on Omni-channel Supply Chain Pricing Decision with the Allowance of Cross-channel Return. *2021 IEEE International Conference on Industrial Engineering and Engineering Management (CPCI)*. 2021.
11. X.P. Wang, **Tang, H.** Research on Tourism Supply Chain Coordination Under the Background of Low-Carbon Tourism. *2020 IEEE International Conference on Industrial Engineering and Engineering Management (CPCI)*. 2020.
12. Xu, S., **Tang, H.** Analysis of retailer's order decision with the allowance of acc payment based on supply chain financing, *IEEE International Conference on Industrial Engineering and Engineering Management (CPCI)*, 2019.
13. Jing Xiangyu, **Tang, H.**, Liu Xiaojun. Blood supply chain design for urgent relief demand under limited funds and time, *46th International Conferences on Computers and Industrial Engineering (EI)*, 2016.
14. Huang Bo, **Tang, H.** The study of revenue sharing about two tow-level supply chains based on the Shapley Value, *46th International Conferences on Computers and Industrial Engineering (EI)*, 2016.
15. Hua Mei-Na, **Tang, H.**, & Wu Zi-Lin, Analysis of a pharmaceutical reverse supply chain based on unwanted medications categories in household, *IEEE International Conference on Industrial Engineering and Engineering Management (EI)*, 2016-December, p 1493-1497, December 27, 2016.
16. Huang, Bo; **Tang, H.**, Study of workshop production system based on Petri nets and flexsim, *Proceedings of The 22<sup>nd</sup> International Conference on Industrial Engineering and Engineering Management: Core Theory and Applications of Industrial Engineering (CPCI)*, 833-844, 2016.

17. Wu Zi-Lin, **Tang, H.**, & Hua Mei-Na, Supply chain optimization of fast moving consumer goods in revenue-sharing contract based on option theory, *5th International Conference on Logistics and Supply Chain Management* (EI), p 173-179, 2015.
18. **Tang, H.**, X.D. Zhang\* & B. Huang, A case study of ordering policy with mass customization, *Proceedings - 2014 7th International Joint Conference on Computational Sciences and Optimization* (EI), *CSO 2014*, p 172-176, October 14, 2014.
19. **Tang, H.** & B. Huang, Study of EOQ model in deteriorating items with price reduction sale and permissible shortage, *ICEMSI 2013 - 2013 International Conference on Engineering, Management Science and Innovation* (EI), September 30, 2014
20. **Tang, H.** & Eugene Levner\*, Exact and approximation algorithms of scheduling in evacuation and recovery service, *ICEMSI 2013 - 2013 International Conference on Engineering, Management Science and Innovation* (EI), September 30, 2014
21. **Tang, H.** & B. Huang, Analysis of an EOQ model in non-instantaneous deteriorating items, *Proceedings of 2013 International Conference on Computers and Industrial Engineering* (EI), CIE, v1, p 278-290, Hong Kong, 2013.
22. **Tang, H.**, X.L. Xu, B. Huang, Evaluation on Bus Rapid Transit in Macau Based on Congestion and Emission Reduction, *the proceedings of 2012 International Conference on Low-carbon Transportation and Logistics, and Green Buildings* (EI), Beijing, China, 2012.
23. X.L. Xu, **Tang, H.**, C. Pang, Optimizing the population of free shuttle buses in Macau”, *Proceedings-4th International Joint Conference on Computational Sciences and Optimization* (EI), pp: 1300-1303, Kunming, China, 2011.

## 研究項目

2024-2025	
2021-2023	碳排放政策下競爭供應鏈的定價與減排聯合決策研究（主持人，澳科大基金會）
	基於粵港澳大灣區跨境貿易視角的供應鏈上下游企業融資模式創新與契約協調研究（主持人，高等教育基金）
2020-2022	基於區塊鏈技術的貨物跨境物流溯源管理系統的研究與應用（主要參與人，廣東省科學技術廳）
2019-2020	



	Study of Revenue Sharing in E-commerce Logistics Service Supply Chain with Cooperative Distribution(主持人，澳門科技大學基金會)
2018-2019	
2016-2017	澳門居民對於可持續旅遊發展的態度研究(主持人，澳門科技大學基金會)
2014 –2016	基於仿真模型的澳門應急疏散研究(主持人，澳門基金會)
	基于 Petri 网离散事件系统渐进稳定控制器综合与优化(參與人，科學技術發展基金)
2012 – 2013	澳門應急調度優化研究（主持人，澳門基金會)
2010 – 2011	澳門免費穿梭巴士優化營運研究(主持人，澳門基金會)

#### **其他專業資格 / 獎項 / 活動**

2024-至今	國際物流與運輸學會會士
2014-2023	國際物流與運輸學會特許會員
2021-至今	國際物流與運輸課程認證評審專家
2020-至今	編輯，國際航運與交通期刊(IJSTL/SSCI)

澳門科技大學“雲課堂教學傑出獎”（2020）

澳門科技大學首屆教學成果獎二等獎 （2020）