

Dr. TIAN, Yihui

Position: Associate Dean/Associate Professor

Faculty: Faculty of Business

Talent Program: Hong Kong Scholar (2015)

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Scholar Links

- ORCID: <https://orcid.org/0000-0002-3667-1215>
- Google Scholar:
<https://scholar.google.com.hk/citations?user=GbPcy3gAAAAJ&hl=zh-CN>
- ResearchGate: <https://www.researchgate.net/profile/Yihui-Tian>

Research Areas:

Sustainable Supply Chain Management, Digital Operations Management, Regional and Industrial Carbon Emissions, Industry Data Analysis

Teaching Areas:

Management Information System, Operations and Supply Chain Management, Research Methods, International Operations Management Strategy, Sustainable Development

Education:

Ph.D. in Business Management, Dalian University of Technology (1985, 211)

Major: Business Management (Environmental Management)

BA in Management, Dalian University of Technology (1985, 211)

Major: Information Management and Information Systems

Academic Appointments:

Faculty of Business, City University of Macau, Macau SAR, China

Associate Dean 2022-present

Associate Professor 2021-present

The Hong Kong Polytechnic University, Hong Kong SAR, China

“Hong Kong Scholars Program” Postdoctoral Research Fellow 2016-2018

School of Economics and Management, Dalian University of Technology, China

Director of Institute of Tourism and Environmental Management 2019-2021

Assistant Professor, Associate Professor 2013-2021

Teaching experience:*City University of Macau*

Research Methods (DBA), Studies on Special Topics (DBA), Traditional Chinese Culture and Management (DBA), Management Information Systems (BBA, MBA), Operations Management (BBA), International Business Operations Strategy (MBA)

Dalian University of Technology

Operations Management (International MBA), Green Supply Chain Management (Postgraduate), Resources, Environment and Sustainable Development (Undergraduate)

Professional Affiliations:

- (1) Council Member of the Sustainable Operation and Management System Branch of the Chinese Systems Engineering Society
- (2) Council Member of the Industrial Engineering Branch of the Chinese Mechanical Engineering Society
- (3) Council Member of the Green and Low-Carbon Professional Committee of the China Association for Standardization
- (4) Review Expert of National Natural Science Foundation
- (5) Comprehensive Bid Evaluation Expert of Guangdong Province
- (6) Standing Council Member of the Guangdong-Hong Kong-Macao Higher Education Professional Committee for Finance and Economics, Guangdong Higher Education Association
- (7) Council Member of the External Exchange Committee of the Guangdong-Hong Kong-Macao Greater Bay Area Logistics and Supply Chain Innovation Alliance
- (8) Vice Chairman of the Supervisory Committee of the Macao Youth Science and Education Association

Journal Peer Reviewer:

- (1) Journal of Business Ethics (FT50, ABS-3)
- (2) International Journal of Production Economics (ABS-3)
- (3) Technological Forecasting and Social Change (ABS-3)
- (4) Business Strategy and the Environment (ABS-3)
- (5) Transportation Research Part E (ABS-3)
- (6) Information processing and management
- (7) Information Development
- (8) Journal of Cleaner Production

Representative Publications:

Total citation on Google Scholar: 1322(2025.11.10), h-index: 13, i10-index: 14, 2 highly cited papers in WOS, 3 highly cited papers in CNKI.

Publications in Refereed Journals (SCIE/SSCI)

- (1) **Yihui Tian***, Qinyuan Zhang, Tiffany C. H. Leung (2025). Multi-factor Driving Paths of Green Supply Chain Management Implementation in Leading Manufacturers: A Fuzzy-set Qualitative Comparative Analysis. *International Journal of Production and Economics*, 287, 109689. (SSCI Q1, ABDC-A, ABS-3)
- (2) **Yihui Tian***, Enyi Lai, Yuxi Fu, Yanchen Li (2025). Exploring the Impacts of ESG Disclosure on Corporate Financing Constraints: A Perspective of Classifying Corporate Carbon Emissions. *Corporate Social Responsibility and Environmental Management*, 1-28. (SSCI Q1, ABS-1)
- (3) **Yihui Tian**, Lingjun Ou, Jingwei Guo, Zhen-Song Chen*, Zhaoxi Chen (2025). A Configuration of Green and Low-Carbon Strategy in Clean Energy Economy: A Perspective of Supply Chain Management. *Energy*, 135642. (SCIE Q1)
- (4) Qi Shen, Jingwei Guo, **Yihui Tian**, Zhen-Song Chen*, (2025). An EMD-Based Forecasting Framework Integrating GMM and BiLSTM for Helicopter Engine Anomaly Detection. *Journal of Industrial Information Integration*, 48, 101003. (SCIE Q1)
- (5) **Yihui Tian***, Qinyuan Zhang, Enyi Lai, Kevin Hannam (2025). How to improve the sustainability of end-of-life vehicles (ELVs): Exploring extended producer responsibility in the Chinese automobile industry. *Transportation Journal*, 64(4), e70012. (SSCI, ABDC-B)
- (6) Lingjun Ou, **Yihui Tian*** (2025). Decoding Enterprise Digital Transformation: A Multi-Theoretical Exploration. *Information Development*, 02666669251315838. (SSCI Q2)
- (7) **Yihui Tian***, Lingjun Ou (2024). Exploring the influencing mechanisms of different digital transformation stages: an industry perspective. *Enterprise Information Systems*, 18(2), 2417407. (SCIE Q1, ABDC-A, ABS-2)
- (8) Jingwei Guo, Xiang Guo, **Yihui Tian**, Hao Zhan, Zhen-Song Chen, Muhammet Deveci* (2024). Making data classification more effective: An automated deep forest model. *Journal of Industrial Information Integration*, 42, 100738. (SCIE Q1)
- (9) Qi Chang, **Yihui Tian***, Nan Xia, Lingyun Gao (2024). Challenges and countermeasures for China's centralized volume-based procurement policy in healthcare. *International Journal of Health Planning and Management*, 39(5), 1-20. (SSCI)
- (10) **Yihui Tian***, Lingjun Ou (2023). How do personality traits of college students affect their learning flow experience? *Learning and Motivation*, 83, 101917. (SSCI)
- (11) Haifen Lin*, Tingchen Qu, Li Li, **Yihui Tian** (2020). The paradox of stability and change: a case study, *Chinese Management Studies*, 14(1), 185-21. (SSCI)
- (12) Wenhua Wang, **Yihui Tian**, Qinghua Zhu* (2017). Barriers for household e-waste

- collection in China: Perspectives from formal collecting enterprises in Liaoning Province, *Journal of Cleaner Production*, 153, 299-308. (SCIE Q1, **ABDC-A**)
- (13) Peijia Huang, Juan Zhao, Yong Geng, **Yihui Tian**, Ping Jiang (2017). Energy-related GHG emissions of the textile industry in China, *Resources, Conservation and Recycling*, 119, 69-77. (SCIE Q1)
- (14) Qinghua Zhu, **Yihui Tian** (2016). Developing a remanufacturing supply chain management system: A case of a successful truck engine remanufacturer in China, *Production Planning & Control*, 27(9), 708-716. (SCIE Q1, **ABDC-A, ABS-3**)
- (15) Martin Agyemang, Qinghua Zhu, **Yihui Tian** (2016). Analysis of Opportunities for Greenhouse Emission Reduction in the Global Supply Chains of Cashew Industry in West Africa, *Journal of Cleaner Production*, 115, 149-161. (SCIE Q1, **ABDC-A**)
- (16) Yunting Feng, **Yihui Tian**, Qinghua Zhu (2016). A combined input-output/Decision Making Trial and Evaluation Laboratory method for evaluating effect of the remanufacturing sector development, *Journal of Cleaner Production*, 114, 103-113. (SCIE Q1, **ABDC-A**)
- (17) **Yihui Tian**, Qinghua Zhu (2015). Greenhouse Gas Emission Assessment of Chinese Container Terminals: A Hybrid Approach of IPCC method and Input-Output Analysis, *International Journal of Shipping and Transport Logistics*, 7(6), 758-779. (SSCI)
- (18) **Yihui Tian**, Kannan Govindan, Qinghua Zhu (2014). A system dynamics model based on evolutionary game theory for green supply chain management diffusion among manufactures, *Journal of Cleaner Production*, 80, 96-105. (SCIE Q1, **ABDC-A, highly cited paper**)
- (19) **Yihui Tian**, Qinghua Zhu, Kee-hung Lai, Y.H. Venus Lun (2014). Analysis of greenhouse gas emissions of freight transport sector in China, *Journal of Transport Geography*, 40, 43-52. (SSCI Q1, **ABDC-A, ABS-2**)
- (20) **Yihui Tian**, Qinghua Zhu, Yong Geng (2013). An analysis of energy-related greenhouse gas emissions in the Chinese iron and steel industry, *Energy Policy*, 56: 352-361. (SSCI Q1, **ABDC-A, ABS-2, highly cited paper**)
- (21) Qinghua Zhu, **Yihui Tian**, Joseph Sarkis (2012). Diffusion of selected green supply chain management practices: an assessment of Chinese enterprises, *Production Planning & Control*, 23(10-11): 837-850. (SCIE Q1, **ABDC-A, ABS-3**)

Publications in Chinese Journals (CSSCI)

- (1) **Yihui Tian***, Qi Chang, Nan Xia (2024). Analysis of Driving Factors for Implementing Green Supply Chain Management in Chinese Automotive Manufacturing Enterprises, *Journal of Zhengzhou University (Philosophy and Social Sciences Edition)*, 57(01), 59-64. (CSSCI, CNKI highly cited paper)
- (2) Xiaoyong Fu, Qinghua Zhu, **Yihui Tian** (2021). Evolutionary Game Analysis of Government and Disassembling Enterprises Based on System Dynamics, *Operations Research and Management Science*, 30(7), 83-88. (CSSCI, NSFC-A, FMS T2)

- (3) **Yihui Tian***, Qinghua Zhu (2016). Game model for diffusion of green supply chain management based on price subsidies of the government, *Journal of Systems Engineering*, 31(4), 526-535. (CSSCI, NSFC-A, FMS T1, CNKI highly cited paper)
- (4) Qinghua Zhu, Yunting Feng, **Yihui Tian** (2014). Economic Impact Analysis of Remanufacturing Industry in China Based on Input-output Method, *China Soft Science*, 6, 34-43. (CSSCI, NSFC-A, FMS T1)
- (5) Qinghua Zhu, Yilei Wang, **Yihui Tian** (2014). Analysis of an Evolutionary Game between Local Governments and Manufacturing Enterprises under Carbon Reduction Policies Based on System Dynamics, *Operations Research and Management Science*, 23(3), 71-82. (CSSCI, NSFC-A, FMS T2, CNKI highly cited paper)
- (6) Ying Li, Qinghua Zhu, **Yihui Tian** (2013). Study of Green Food Certification and Production Development in China Based on the Diffusion of Innovation Theory, *Journal of Dalian University of Technology (Social Sciences)*, 34(4), 25-30. (CSSCI)
- (7) Qinghua Zhu, **Yihui Tian** (2012). Dynamic Model for Green Supply Chain Management Implementation in Enterprises, *Chinese Journal of Management*, 7(5), 723-727. (CSSCI, NSFC-B FMS T1)
- (8) Hong Zhao, Chunyou Wu, **Yihui Tian** (2008). The Transformation Path of Resource-based Industrial Custers, *Journal of Dalian Maritime University (Social Science Edition)*, 7(5), 83-86.

Book/Chapter

- (1) Zhen Liu, **Yihui Tian**, Enyi Lai (2024). *Theory and Practice of Corporate Social Responsibility*, Modern Press, Beijign. ISBN 978-7-5231-1101-7.
- (2) Azevedo, S., Cruz-Machado, V., Hofstetter, J., Cudney, E., **Yihui Tian**. (2013), Chapter title: 'Importance of green and resilient SCM practices for the competitiveness of the automotive industry', *Reverse supply Chains issues and analysis*, CRC Press, Boca Raton. ISBN 978-1-439-89902-1, 229-252.

Patent for Invention

- (1) **The first inventor**, An IoT-based energy management platform (CN117933660A)
- (2) **The first inventor**, A big data-driven support system for energy conservation and emission reduction (CN117974053A)
- (3) **The first inventor**, A blockchain-based energy trading and regulatory system (CN11793264A)
- (4) **The third inventor**, An industrial carbon emission reduction real-time monitoring device (CN119572885A)

Social Organization Standards

Co- Investigator. Corporate Environmental, Social, and Governance (ESG) Disclosure Guidelines (T/CAS 868-2024), China Association for Standardization.

Commissioned Research Projects

Principal Investigator and Co-Principal Investigator

- (1) Principal Investigator. **Macau Foundation** (2023, Jan 2023 - Jun 2024): Research on the configuration of driving factors for the implementation of green supply chain management in hotel industry in Guangdong Hong Kong Macao Greater Bay Area.
- (2) Co-Principal Investigator. **Higher Education Fund of the Macao SAR Government** (2022, Jan 2022 - Dec 2023): Implementation and weight determination of supply chain resilience practices.
- (3) Principal Investigator. **Hong Kong Scholars Program** (2015-136, Jun 2016 - Jun 2018): Environmental supply chain resilience.
- (4) Principal Investigator. **National Natural Science Foundation of China** (71402016, Jan 2015 - Dec 2017): A study on green supply chain management diffusion mechanism among manufacturing enterprises.
- (5) Principal Investigator. **The Fundamental Research Funds for the Central Universities** (Jun 2016 - Jun 2017) : Research on the influence of government on the competition among remanufacturing enterprises.
- (6) Principal Investigator. **The Fundamental Research Funds for the Central Universities** (Jan 2014 - Dec 2015) : Research on simulation of remanufacturing closed supply chain based on GIS.

Co-Investigator

- (1) Co-Investigator. **National Key Basic Research Development Plan (973)** (2011CB013406, Nov 2011 - Oct 2016): Decision support and comprehensive evaluation theory of remanufacturing process.
- (2) Co-Investigator. **National Science Fund for Distinguished Young Scholars** (71025002, Jan 2011 - Dec 2014): Logistics and supply chain management.
- (3) Co-Investigator. **The Major Research Plan of National Social Science Fund of China** (13&ZD147 , Jan 2014 - Jun 2016): Research on basic theoretical issues in EPR implementation.
- (4) Co-Investigator. **National Natural Science Foundation of China** (71671025, Jan 2017 - Dec 2020): Research on interference management of multimodal transport system based on multi-party competition game in low-carbon operating environment.
- (5) Co-Investigator. **National Natural Science Foundation of China** (71602181, Jan 2017 - Dec 2019): Research on the evaluation method and performance realization mechanism of social responsibility management practice of SOE extended supply chain.
- (6) Co-Investigator. **National Natural Science Foundation of China** (71572025, Jan 2016 - Dec 2019): Research on the paradoxical role of organizational conventions in organizational innovation and their adaptation mechanism.
- (7) Co-Investigator. **National Natural Science Foundation of China** (71572022, Jan

2016 - Dec 2018): Research on the generation mechanism and evolution of entrepreneurial orientation of new ventures in the internet environment.

- (8) Co-Investigator. **National Natural Science Foundation of China** (71472021, Jan 2016 - Dec 2018): Research on enterprise green supply chain management decision model and method based on customer environmental preferences.
- (9) Co-Investigator. **National Natural Science Foundation of China** (71473029, Jan 2015 - Dec 2018): Research on measurement and evaluation of urban sustainable consumption.
- (10) Co-Investigator. **Social Governance and ESG Special Committee of the Chinese Society of Business Economics** (Jan 2026 - Jun 2027): Research on the impact mechanism of ESG practice level and financial performance of Chinese listed companies under the "Dual Carbon" policy system.
- (11) Co-Investigator. **Discipline Co-construction Project of Guangdong Provincial Social Science Planning** (Jul 2024 - Jul 2026): Research on the coupling mechanism of digital transformation and talent matching in the high-quality development of Guangdong's manufacturing industry.
- (12) Co-Investigator. **Macao Foundation** (Jan 2024 - Jun 2025): Research on smart teaching for promoting sustainable environmental behavior through gamification or virtual reality development.
- (13) Co-Investigator. **Social Science Planning Project of Zhongshan City** (Jan 2023 Dec 2023): Research on performance compensation management of municipal state-owned enterprises under the background of high-quality development - taking Xingzhong group energy co., ltd. as an example