

Xin LI



Position : Associate Professor/Department Head

Faculty : MSB

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Teaching and Research Areas:

Green and sustainable supply chains, big data, data-driven supply chains, smart manufacturing and cloud manufacturing services, digital supply chains, e-commerce and network platform operations, dynamic planning, logistics and supply chain finance, sharing economy, queuing systems, supply chain applications and policies, statistics, management decision-making methods, operational management, game theory, etc.

Academic Qualifications

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|-------------|---|
| 2010 -2014 | Ph.D (Full Scholarship)/ Supply Chain / University of Macau |
| 2007 - 2010 | Master / Mathematics / University of Macau |
| 2003 - 2007 | Bachelor (Full Scholarship) / Logistics Management / Macau University of Science and Technology |
| 2015.07-08 | Visiting Scholar/ Department of Logistics and Maritime Studies/The Hong Kong |
| 2017.07-08 | Polytechnic University |

Professional Experiences

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| 2022.07- Present | Department Head of Decision Sciences
School of Business, Macau University of Science and Technology |
| 2019.07 - Present | Associate Professor
School of Business, Macau University of Science and Technology |
| 2014.09 - 2019. 06 | Assistant Professor
School of Business, Macau University of Science and Technology |
| 2013.09 - 2014. 08 | Lecturer,
School of Business, Macau University of Science and Technology |

2012 – 2013 Part-time Lecturer,
 Logistics School, BNU-Zhu Hai

Professional Qualifications and Awards

Chartered Member, The Chartered Institute of Logistics and Transport.
2016 Bank of China Excellent Research Award by Macau University of Science and Technology.
2020/2021 Macau LIB Research Award
2020/2021 Teaching Excellence Award
2019/2020 Cloud Classroom Teaching Excellence Award
2019/2020 Macau University of Science and Technology Teaching Achievement Award
2018/2019 Guangdong Province Undergraduate University Logistics Management and Engineering Major Excellent Teaching Achievement Second Prize

Membership of Academic Associations and Community Service

Committee Member, Macau Youth Research Association.
Committee Member, Macau Political and Economic Research Association.
Committee Member, Civil Aviation Policy Research Institute.
Committee Member, CILT Macau.
Member, INFORMS.
Organizing Committee Member/Session Chair, The Seventh POMS-HK International Conference.
Journal Paper Reviewer, Production and Operations Management, European Journal of Operations Research, International Journal of Production Economics, Annals of Operations Research, etc.

Representative Publications

Selected Journal Articles:

1. **X. Li**, P. Guo, Z. Lian. "Quality-Speed Competition in Customer-Intensive Services with Boundedly Rational Customers." *Production and Operations Management*. Vol 25, No.11, pp. 1885–190, 2016 (UTD list, SCI).
2. **X. Li**, K. K. Choong, Z. Lian, X. Liu. "A Quantity-Flexibility Contract with Coordination." *International Journal of Production Economics*. Vol. 9, pp. 273-284, 2016. (SCI, IF=5.134, 4/84 in OPERATIONS RESEARCH&MANAGEMENT SCIENCE, INDUSTRIAL)
3. X. Xu, Z. Lian, **X. Li***, P. Guo. "A Hotelling Queue Model with Probabilistic Service." *Operations Research Letters*. Vol. 44, No. 5, pp. 592-597, 2016. (SCI).
4. **X. Li**, H. Chen, X. Tao. "Pricing and Capacity Allocation in Renewable Energy." *Applied Energy*. Vol. 179, pp. 1097-1105, 2016. (SCI, IF=7.9, 8/97 in ENERGY & FUELS).
5. Y. Shi, **X. Li***, P. Fan. "Optimization of an M/M/∞ Queueing Systems with Free Experience Service." *Asia-Pacific Journal of Operational Research*. Vol. 33, No. 6, 2016. (SCI).
6. **X. Li**, Q. Li, P. Guo, Z. Lian. "On the Uniqueness and Stability of Equilibrium in Quality-Speed Competition with Boundedly-Rational Customers: the Case with General Reward Function and Multiple Servers." *International Journal of Production Economics*. Vol. 193, pp. 726-736, 2017.

(SCI, IF=5.134, 4/84 in OPERATIONS RESEARCH&MANAGEMENT SCIENCE, INDUSTRIAL)

7. **X. Li**, P. Guo, Z. Lian. "Price-Capacity Decisions and Service Sustainability with Boundedly Rational Customers." *Naval Research Logistics*. Vol. 64. No. 4, 2017. (SCI) .
8. Z. Tao, **X. Li***, X. Liu, N. Feng. "Analysis of Signal Game for Supply Chain Finance (SCF) of MSEs and Banks Based on Incomplete Information Model", *Discrete Dynamics in Nature and Society*. Vol 2019. (SCI).
9. **X. Li**, Z. Lian, and C. Pang. "Efficient coordination of supply contracts with demand learning and two production modes." *International Journal of Production Economics* 225 107585, 2020. (SCI, IF=5.134, 4/84 in OPERATIONS RESEARCH&MANAGEMENT SCIENCE, INDUSTRIAL)
10. **X. LI**, Zhang Tao, and Nana Feng. "A Dual-Channel Sale System in Financially Constrained Supply Chain." *Scientific Programming* 2021 (2021): 1-10.
11. Zhang, Jinjin, **X. Li***, Yong-Hong Kuo, and Yan Chen. "Coordinating supply chain financing for e-commerce companies through a loan contract." *SAGE Open*. Vol 11, No. 4. 2021. (SSCI).
12. G.Liu, J. Chen, Z. Chen, G. Zhu, S. Lin, S. Huang, and **X. Li***. "Insights on defeating coronavirus disease (COVID-19) outbreak and predicting tourist arrival on the Chinese Hainan Leisure Island during the COVID-19 pandemic." *Medicine* Vol. 100, No. 41. 2021.
13. **X. Li**, Q. Li, and P. Guo. "Time-based or fixed-fee? How to penalize cancellation of orders of car-hailing applications." *International Journal of Production Economics* 232 107960, 2021. (SCI, IF=5.134, 4/84 in OPERATIONS RESEARCH&MANAGEMENT SCIENCE, INDUSTRIAL)
14. K. Li, **X. Li***, Z. Lin, J. Lu, and P. H. Che. "Fund Matching between Fund-Raisers and Investors in Financing Platform with Consideration of Default Risk." *Mathematical Problems in Engineering* (2021): 1-8. 2021.(SCI)
15. **X. Li** and Y. Li. "NEV's supply chain coordination with financial constraint and demand uncertainty." *Sustainability* Vol. 14, No. 3: 1114.2022. (SSCI).
16. **X. LI**, K. Li, Y. Li, Platform Operations under Dual-Channel Catering Supply Chain. *Mathematics*. 11(16):3610. 2023. (SCI)
17. **X. Li**, M. Wu, C. Shi, Y. Chen,. Impacts of green credit policies and information asymmetry: From market perspective[J]. *Resources Policy*, 81: 103395. 2023 (SSCI)
18. Y. Shi, **X. Li,*** Optimization of a Two-Echelon Supply Chain Considering Consumer Low-Carbon Preference. *Mathematics*. 11(15):3264. 2023. (SCI)
19. Y. Shi, **X. Li*** and Z. Lian. "Equilibrium location and Optimization of Two Double-sided queues Based on the Hotelling Model", *International Journal of Shipping and Transport Logistics*,Forthcoming , 2023. (SCI)

Selected Papers Under Preparation:

1. **X. Li**, H. Balasubramanian; C. Pang, Y. Chen*, "Revenue management of a special platform with interacting buyers on both sides." Under Review in *European Journal of Operational Research*. 2023
2. **X. Li**, Z. Lian* and Y. Shi. "Strategic Equilibrium of Service Capacity Co-opetition with Time Sensitive Customers" Under Review in *OR Spectrum*. 2023
3. **X. Li**, K. Li and Z. Lian. "Co-opetition in Batch Serving Service System with Limited Capacity" Prepared to submit to *Manufacturing & Service Operations Management*.

Recent Research Projects:

1. Service Operation Management in Sharing Economy with Strategic Customers or Boundedly Rational Customers , National Natural Science Foundation of China , 71801233 , 2019/1-2021/12 , **PI.**
2. The Impact of Reservation on Demand in a Quantity Flexibility Contract with Coordination, Faculty Research Grants, 2014-2015, **PI.**
3. Fixed or Variable? On the Cancellation Penalty Scheme of A Car-Hailing Application with Strategic Customers. Faculty Research Grants, 2019-2020, **PI.**
4. Co-opetition in Service Capacity and Waiting-area Entertainment. Faculty Research Grants, 2022-2023, **PI.**
5. “建设江澳中医药人才交流培训基地的路径研究” 广东省社会科学院江门分院，2022, **PI.**
6. “促进澳门大学生横琴就业创业调查研究”横琴粤澳深度合作区行政事务局，2022，主要参与人
7. “澳門特別行政區五年發展規劃(2016-2020年)”社會評估之問卷調查，澳門特別行政區政策研究室, 2018, **PI.**
8. “澳門顧員家庭友善政策：文化、衝突與滿意”調查研究，2017, **PI.**
9. 《澳門醫療融資制度》研究，澳門特別行政區衛生局，2019, Primary Participant.
10. 澳門會展業未來人才需求調研，澳門特別行政區人才發展委員會，2019, Primary Participant.
11. 能源效益狀況調查，澳門能源業發展辦公室，2019, Primary Participant.
12. 澳門飲食和酒店業未來人才需求調研，澳門特別行政區人才發展委員會，2018, Primary Participant.
13. “社區消費無限FUN”消費者與商戶意見調查研究，澳門特別行政區經濟局，2018, Primary Participant.
14. “從行業健康發展及區域競爭角度討論博彩業（2020至2030年）適度規模定量分析”研究報告，澳門特別行政區經濟局，2018, Primary Participant.
15. 澳門金融和保險業未來人才需求調研，澳門特別行政區人才發展委員會，2017, Primary Participant.
16. 澳門社區經濟調研，澳門特別行政區經濟局，2017, Mop 470,000, Primary Participant.
17. “社區消費無限FUN”消費者與商戶意見調查研究，澳門特別行政區經濟局，2017, Primary Participant.
18. 中國銀行澳門分行自助設備和中銀卡使用情況調查研究，中國銀行澳門分行，2017, Primary Participant.
19. 《中國銀行澳門分行電子渠道客戶滿意度》調查研究,, 中国银行澳门分行，2016, Primary Participant.
20. 《澳門特別行政區住宅用電模式》先導調查研究，澳門能源業發展辦公室，2015, Primary Participant.
21. 《媽閣至關閘公交快速通道方案》調查研究，澳門交通局，2015, Primary Participant.
22. 《物流业务拓展可行性分析》，澳門水泥厂，2012, Primary Participant.
23. 《澳门物流行业的发展报告》，澳門交通局，2012, Primary Participant.
24. 《新形勢下澳門與珠三角地區貨運物流的拓展之道》，澳門付货人协会，2009, Primary Participant.

Books:

1. Z. Lian, **X. Li**, Z. Li et al. Development of Macau Cargo and Logistics Management under New Circumstance, *Publication Center of University of Macau*, 2010.

Conference Proceedings:

1. **X. Li**, P. Guo, Z. Lian. (2013, 1-4 July). *Bounded Rationality in Customer-sensitive Service System*, the 26th European Conference on Operational Research, Rome.
2. **X. Li**, Z. Lian, W. Zhou. (2012, 10-13 Dec). *A Quantity-Flexibility Contract in Two Periods with Supply Chain Coordination*, the 2012 IEEE International Conference on Industrial Engineering and Engineering Management, Hong Kong.
3. X. Liu, Z. Lian, **X. Li**. (2012, 8-11 July). *Optimize the payout probability table in slot machines*, the 25th European Conference on Operational Research, Vilnius, Lithuania.
4. **X. Li**, Z. Lian. (2013, 6-9 Oct). *Optimal Pricing for VIP with Resource Sharing in Visible and Invisible Queue*, 2013 Informs Annual Meeting.
5. **X. Li**, P. Guo, Z. Lian. (2015, 3-4 Jan). *Pricing and Capacity Decisions for Bounded Rationality in a Service System*, the Sixth POMS-HK International Conference.
6. X. Xu, Z. Lian, **X. Li**, P. Guo. (2015, 3-4 Jan). *A Hotelling Queue Model with Probabilistic Service*, the Seventh POMS-HK International Conference.
7. Y. Chen, J. Zhang, Y. Yang, **X. Li**, Kuo, Y.H. (2014, 4-6 July) "3-Party Loan Contract Based Purchase-Order Financing." Seventh International Joint Conference on Computational Sciences & Optimization, pp. 163-167. IEEE, 2014.(EI-index)
8. **X. Li**, Z. Lian(2014, 15 Nov). *Optimal Pricing with Yield management in M/M/c*, the 2014 International Conference on Computational Intelligence and Security (CIS'2014). (EI-index)
9. T. Zhang, **X. Li**, B. Huang (2014, 14 Nov). *Distribution center's decisions in E-commerce with the consideration of delivery time*, 2014 7th International Joint Conference on Computational Sciences and Optimization. (EI-index)
10. **X. Li** (2015, 15 Nov).. *A Quantity-Flexibility Contract in Two-Stage Decision with Supply Chain Coordination*, the 11th International Conference on Computational Intelligence and Security (CIS), pp. 109-112. IEEE, 2015.(EI-index)
11. Y. Shi, **X. Li**, Z. Lian(2018. 14 Jul), *Equilibrium location and Optimization of Two Double-sided queues Based on the Hotelling Model*, the eleventh annual international conference of Chinese Scholars Association for Management Science and Engineering (CSAMSE), 2018, Ningbo.

Contributions to News Media:

1. **李新**, 練肇通. (2012a, 4月29日). 澳门航空物流. *澳门日报*.
2. **李新**, 練肇通. (2012b, 2月12日). 文化產業鏈拉動協力廠商物流. *澳门日报*.
3. **李新**. (2015, 12月2日). 叫車平台對的士的影響與建議. *澳门日报*.