

李 延 通



李延通 (1989-)，大连海事大学航运经济与管理学院副教授、博士生导师，法国巴黎萨克雷大学（2025 软科世界大学排名第 13 位）自动化专业博士。现任中国运筹学会排序分会理事、随机服务与运作管理分会青年理事，入选大连市“青年才俊”类高层次人才计划。曾赴香港理工大学工业与系统工程系、加拿大拉瓦尔大学 CIRRELT 团队进行学术访问。主持多项国家级及省部级科研项目，包括国家自然科学基金面上项目、国家自然科学基金青年科学基金项目（C 类）、教育部人文社科青年基金、辽宁省社科规划基金青年项目，以及中国博士后科学基金面上一等资助等。主要研究方向涵盖运筹优化、低空经济运营与管理，并聚焦于智慧港口运营、海洋治理及海上巡航监管调度与路径规划等应用领域。已发表或录用高水平学术论文 50 余篇，其中包括 UTD-24 期刊论文 2 篇、ESI 高被引论文 1 篇、SCI 期刊论文 30 余篇。多项成果见于 IJOC、EJOR、IJPR、IJPE、Omega、TRC/E、COR、CIE、IEEE TITS、IEEE TASE、IEEE TEM 等国际权威期刊。长期担任 EJOR、Omega、TRE、IJPR、IJPE、COR、CIE、IEEE TITS、IEEE SMC、IEEE TASE、ESWA、INFOR 等多家国际知名期刊审稿人。

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||---教育背景

- 2015 年 2 月 – 2019 年 2 月，巴黎萨克雷大学，自动化专业， 博士
- 2011 年 9 月 – 2013 年 12 月，军事交通学院，交通运输规划与管理专业， 硕士
- 2007 年 9 月 – 2011 年 7 月，北京交通大学，交通运输类， 学士

||---研究领域

运筹优化与算法设计、智能交通与路径优化、物流与供应链优化

||---教授课程

电子商务（本科），生产调度原理（本科）、管理软件实训（本科）、决策理论与方法（硕士）、系统决策理论与方法（硕士）

||---科研项目

[1] 主持，在研，国家自然科学基金面上项目，项目批准号：72571037，项目名称：面向

海警复杂巡航执法任务的舰机协同调度与路径规划方法研究，项目起止时间：2026 年 01 月至 2028 年 12 月。

[2] 主持，在研，国家自然科学基金青年项目，项目批准号：72201044，项目名称：面向海上油气田管线的“船-无人机”协同巡检调度优化，项目起止时间：2023 年 01 月至 2025 年 12 月。

[3] 主持，在研，教育部人文社会科学青年基金项目，项目批准号：22YJC630071，项目名称：大规模疫苗接种资源配置与调度优化，项目起止时间：2022 年 07 月至 2024 年 12 月。

[4] 主持，在研，辽宁省社科规划基金青年项目，项目批准号：L22CGL007，项目名称：推进大连港口型国家物流枢纽建设的对策研究，项目起止时间：2022 年 09 月至 2023 年 08 月。

[5] 主持，在研，中国博士后科学基金面上资助一等，项目批准号：2022M710018，项目名称：面向海上平台快递的“船-无人机”协同路径规划问题研究，项目起止时间：2022 年 06 月至 2025 年 06 月。

[6] 主持，在研，大连市社科联重点项目，项目批准号：2022dlskzd238，项目名称：关于提升大连国际性枢纽港效能研究，项目起止时间：2022 年 06 月至 2025 年 06 月。

||---期刊论文 (已发表或接收)

1. Li Yantong (李延通), Côté Jean Francois, Coelho Leandro C., and Wu Peng* (2022). Novel Formulation and Logic-based Benders Decomposition for the Integrated Parallel Machine Scheduling and Location Problem. *INFORMS Journal on Computing*, 34(2):1048-1069. (Top UTD 24 Journal, FMS A 类, JCR Q3, IF: 2.276) <https://doi.org/10.1287/ijoc.2021.1113>
2. Li Yantong (李延通), Zhou Shanshan, Côté Jean Francois (2025). Exact methods and a two-stage iterative heuristic for the carrier-vehicle traveling salesman problem. Forthcoming, *INFORMS Journal on Computing*. (Top UTD 24 Journal, FMS A 类, JCR Q3, IF: 2.276)
3. Li Yantong* (李延通), Côté Jean Francois, and Coelho Leandro C. (2023). Order assignment and scheduling under processing and distribution time uncertainty. *European Journal of Operational Research*, 305(1), 148-163 (FMS A 类, JCR Q1, IF: 6.363) <https://doi.org/10.1016/j.ejor.2022.05.033>
4. Li Yantong (李延通), Chu Feng, Chu Chengbin*, and Zhu Zhanguo (2019). An efficient three-level heuristic for the large-scaled multi-product production routing problem with outsourcing. *European Journal of Operational Research*, 272(3), 914-927. (FMS A 类, JCR Q1, IF: 6.363) <https://doi.org/10.1016/j.ejor.2018.07.018>
5. Li Yantong (李延通), Chu Feng, Chu Chengbin*, and Zhu Zhanguo (2019). An efficient three-level heuristic for the large-scaled multi-product production routing problem with outsourcing. *European Journal of Operational Research*, 272(3), 914-927. (FMS A 类, JCR Q1, IF: 6.363) <https://doi.org/10.1016/j.ejor.2018.07.018>

6. Li Yantong(李延通), Ren Bo, Wen Xin, and Chuang Sai-Ho (2025). An adaptive large neighborhood search method for the AGV scheduling problem with a limited number of chargers[J]. *International Journal of Production Research*, 1-33. (FMS B 类, JCR Q1, IF: 9.018) <https://doi.org/10.1080/00207543.2025.2462670>
7. Li Yantong (李延通), Wang Xingqi. (2024). Enhancing offshore parcel delivery efficiency through vessel-unmanned aerial vehicle collaborative routing. *International Journal of Production Research*, 1–27. (FMS B 类, JCR Q1, IF: 9.018) <https://doi.org/10.1080/00207543.2024.2422818>.
8. Li Yantong (李延通), Côté Jean Francois, Coelho Leandro C., and Wu Peng*(2022). Novel efficient formulation and matheuristic for large-sized unrelated parallel machine scheduling with release dates. *International Journal of Production Research*, 60(20), 6104-6123. (FMS B 类, JCR Q1, IF: 9.018) <https://www.tandfonline.com/doi/abs/10.1080/00207543.2021.1983224>
9. Li Yantong (李延通), Chu Feng, Côté Jean Francois, Coelho Leandro C., and Chu Chengbin* (2020). The multi-plant perishable food production routing with packaging consideration. *International Journal of Production Economics*, 221, 107472. (FMS B 类, JCR Q1, IF: 11.251) <https://doi.org/10.1016/j.iipe.2019.08.007>
10. Li Yantong (李延通), Chu Feng*, Feng Chenpeng, Chu Chengbin, and Zhou Mengchu (2018). Integrated production inventory routing planning for intelligent food logistics systems. *IEEE Transactions on Intelligent Transportation Systems*, 20(3), 867-878. (FMS B 类, JCR Q1, IF: 9.551) <https://doi.org/10.1109/TITS.2018.2835145>
11. Li Yantong (李延通), Li Ying, Cheng Junheng, and Wu Peng* (2021). [Order assignment and scheduling for personal protective equipment production during the outbreak of epidemics](#). *IEEE Transaction on Automation Science and Engineering*, 19(2), 692-708. (FMS B 类, JCR Q1, IF: 6.636) <https://doi.org/10.1109/TASE.2021.3137025>
12. Li Yantong (李延通), Wen Xin, Choi Tsan-Ming, and Chung Sai-Ho (2022). Optimal establishments of massive testing programs to combat COVID-19: A perspective of parallel-machine scheduling-location (ScheLoc) problem. *IEEE Transaction on Engineering Management*, 71: 13380-13395. (FMS B 类, JCR Q1, IF: 8.702) <https://doi.org/10.1109/TEM.2022.3199039>
13. Li Yantong(李延通), Wang Shengjie, Sun Hairui, Zhou Shanshan(2025). Collaborative vessel–unmanned aerial vehicle routing for time-window-constrained offshore parcel delivery[J]. *Transportation Research Part C: Emerging Technologies*, 2025, 178: 105189. (FMS B 类, JCR Q1, IF:7.9). <https://doi.org/10.1016/j.trc.2025.105189>
14. Li Yantong(李延通), Wen Xin, Zhou Shanshan, and Chuang Sai-Ho (2025). Smart Automated Guided Vehicle scheduling with flexible battery management: A new formulation and an exact approach[J]. *Computers & Operations Research*, 107156. (FMS B 类, JCR Q1, IF: 5.159) <https://doi.org/10.1016/j.cor.2025.107156>
15. Li Yantong (李延通), Wang Shengjie, Zhou Shanshan, and Wang Zheng(2024), et al. A mathematical formulation and a tabu search heuristic for the joint vessel-UAV routing problem[J]. *Computers & Operations Research*, 2024: 106723 (FMS B 类, JCR Q1, IF: 5.159). <https://doi.org/10.1016/j.cor.2024.106723>

16. Li Yantong(李延通), Ren Bo, Wen Xin (2025). An efficient two-stage matheuristic for scheduling airport electric shuttle buses with flight schedule coordination[J]. *Computers & Industrial Engineering*, 203: 110998.
(FMS B 类, JCR Q1, IF: 6.5) <https://doi.org/10.1016/j.cie.2025.110998>
17. Li Yantong (李延通), Chung Sai-Ho, Wen Xin, and Zhou shanshan (2023). Towards the sustainable economy through digital technology: A drone-aided after-sales service scheduling model. *Applied Soft Computing*, 138: 110202. (JCR Q1, IF: 8.263) <https://doi.org/10.1016/j.asoc.2023.110202>
18. Li Yantong (李延通), Tang Lianhua, Bai Danyu, and Coelho Leandro C(2024). Profit maximization through integrated order acceptance and scheduling: A metaheuristic approach[J]. *Applied Soft Computing*, 2024, 159: 111570 (JCR Q1, IF: 8.263),<https://doi.org/10.1016/j.asoc.2024.111570>
19. Xue Guiqin, Li Yantong (李延通, 共同一作), Wang Zheng (2023). Vessel-UAV Collaborative Optimization for the Offshore Oil and Gas Pipelines Inspection[J]. *International Journal of Fuzzy Systems*, 25(1), 382-394. (JCR Q1, IF:4.085). [10.1007/s40815-022-01435-4](https://doi.org/10.1007/s40815-022-01435-4).
20. Tang Lianhua, Ma Hoi-Lam, Wen Xin, and Li Yantong* (李延通, 通讯作者) (2025). Mathematical formulations and an adaptive large neighbourhood search method for the single movable machine scheduling and location problem[J]. *International Journal of Production Research*, 1-34. (FMS B 类, JCR Q1, IF: 9.018) <https://doi.org/10.1080/00207543.2025.2539312>
21. Tang Lianhua, Li Yantong* (李延通, 通讯作者), Bai Danyu, Liu Tao, and Coelho Leandro C. (2022). Bi-objective optimization for a multi-period COVID-19 vaccination planning problem. *OMEGA – The International Journal of Management Science*, 110, 102617. (FMS B 类, JCR Q1, IF: 8.673) <https://doi.org/10.1016/j.omega.2022.102617>
22. Tang Lianhua, Li Yantong* (李延通, 通讯作者), Zhang Shanshan, et al. (2024). Mobile COVID-19 vaccination scheduling with capacity selection[J]. *Transportation Research Part E: Logistics and Transportation Review*, 2025, 193: 103826. (FMS B 类, JCR Q1, IF: 8.8), <https://doi.org/10.1016/j.tre.2024.103826>.
23. Chu Xiang, Wang Rui, Lin Yan, Wen Xin, and Li Yantong* (李延通, 通讯作者) (2022). Building trust in online trade-in programs with a blockchain-enabled system. *Transportation Research Part E: Logistics and Transportation Review*, 164, 102833. (FMS B 类, JCR Q1, IF: 10.047), <https://doi.org/10.1016/j.tre.2022.102833>
24. Zhang Chuang, Li Yantong* (李延通, 通讯作者), and Cao Junhai, and Wen Xin (2022). [On the mass COVID-19 vaccination scheduling problem.](#) *Computers & Operations Research*, 141, 105704. (FMS B 类, JCR Q1, IF: 5.159) <https://doi.org/10.1016/j.cor.2022.105704>
25. Zhang Chuang, Li Yantong* (李延通, 通讯作者), Cao Junhai, Yang Zhen, and Coelho Leandro C. (2022). Exact and matheuristic methods for the parallel machine scheduling and location problem with delivery time and due date. *Computers & Operations Research*, 147, 105936. (FMS B 类, JCR Q1, IF: 5.159) <https://doi.org/10.1016/j.cor.2022.105936>
26. Tang Lianhua, Ariano D’Andrea, Xu Xingfang, Li Yantong* (李延通), Ding Xiaobing, and Sam à Marcella (2018). Scheduling local and express trains in suburban rail transit lines: Mixed–integer nonlinear programming and adaptive genetic algorithm.*Computers & Operations Research*, 135, 105436. (FMS B 类, JCR Q1, IF: 5.159) <https://doi.org/10.1016/j.cor.2021.105436>

27. Xiang Chu, Rui Wang, Long Ren, **Li Yantong*** (李延通, 通讯作者), Shuai Zhang (2024). Enabling joint distribution with blockchain technology in last-mile logistics[J]. *Computers & Industrial Engineering*, 2024, 187: [109832](https://doi.org/10.1016/j.cie.2023.109832). (FMS B 类, JCR Q1, IF: 7.18) <https://doi.org/10.1016/j.cie.2023.109832>
28. Wu Peng, Wang Yun, Cheng Junheng, **Li Yantong*** (李延通, 通讯作者) (2022). An improved mixed-integer programming approach for bi-objective parallel machine scheduling and location. *Computers & Industrial Engineering*, 174, 108813. (FMS B 类, JCR Q1, IF: 7.18). <https://doi.org/10.1016/j.cie.2022.108813>
29. Ren Bo, **Li Yantong*** (李延通, 通讯作者), Wen Xin, and Hoi-Lam Ma (2025). The offshore mobile charging vessel location and electric vessels charging scheduling problem[J]. *Ocean Engineering*, 2025, 339: 122181. (JCR Q1, IF: 7.18) <https://doi.org/10.1016/j.oceaneng.2025.122181>
30. Zhou Shanshan, Wang Zheng, **Li Yantong*** (李延通, 通讯作者), and Wen Xin (2025). A matheuristic method for the automated guided vehicle scheduling problem with flexible charging and job release[J]. *Applied Soft Computing*, 113531. (JCR Q1, IF: 6.6) <https://doi.org/10.1016/j.asoc.2025.113531>
31. Li Zhaohui, Zhang Chuang, Wu Tianhong, and **Li Yantong*** (李延通) (2025). Optimizing plastic product manufacturing scheduling: an integrated approach to minimize setup costs and tardiness with preventive maintenance considerations[J]. *International Transactions in Operational Research*. (JCR Q1, IF: 2.9) <https://doi.org/10.1111/itor.70085>
32. Yipei Zhang, Feng Chu, Ada Che, **Yantong Li** (李延通) (2024). Closed-loop inventory routing problem for perishable food with returnable transport items selection[J]. *International Journal of Production Research*, 2024, 62(1-2): 501-521. (FMS B 类, JCR Q1, IF: 9.018) <https://doi.org/10.1080/00207543.2023.2275639>
33. Wen Xin, Ma Hoi-Lam, Li Yantong, and He Yonghuan (2025). Do costs and team-building conflict in airline crew scheduling? An individual crew pairing approach[J]. *Transportation Research Part E: Logistics and Transportation Review*, 2025, 202: 104329. (FMS B 类, JCR Q1, IF: 8.8) <https://doi.org/10.1016/j.tre.2025.104329>
34. Chen Sumin, Zeng Qingcheng, **Li Yantong** (李延通) (2023). Integrated operations planning in highly electrified container terminals considering time-of-use tariffs[J]. *Transportation Research Part E: Logistics and Transportation Review*, 171, 103034. (FMS B 类, JCR Q1, IF: 10.047). <https://doi.org/10.1016/j.tre.2023.103034>.
35. Wang Qi, Tong Xialiang, **Li Yantong** (李延通), Wang Chong, Zhang Canrong (2025). Integrated Scheduling Optimization for Automated Container Terminal: A Reinforcement Learning-Based Approach[J]. *IEEE Transactions on Intelligent Transportation Systems*. (FMS B 类, JCR Q1, IF: 8.4) <https://doi.org/10.1109/TITS.2025.3556882>
36. **李延通**, 李子璠, 周姗姗, 等. 无人机光伏电站巡检双目标选址-路径问题研究[J]. 系统工程与电子技术, 2025, 47(08): 2612-2621.
37. **李延通**, 张闯, 汤莲花. 母舰-舰载机协同路径规划问题研究综述 [J/OL]. 控制与决策, 1-19 [2024-12-18]. <https://doi.org/10.13195/j.kzyjc.2023.1744>.
38. 张闯, 卫超强, **李延通***, 等. 基于舰机协同的岛礁巡航路径规划 [J]. 兵工学报, 2025, 46(05): 300-309.

39. 张闯, **李延通***, 曹军海, 张强, 刘毅. 考虑中断风险的装备维修器材供应选址调度组合优化[J]. 兵器装备工程学报, 2022, 43(5):7.
40. 曹军海, 张闯, **李延通***, 郭一鸣, 郭庆义. 装备维修器材预储点选址与预置运输配送组合优化方法[J]. 兵工学报, 在线发表. 2022
41. 谢宗仁, 耿奎, **李延通**. 基于突变级数法的世界主要国家战争能力评估[J]. 军事运筹与系统工程, 2020, 34(02):52-58.
42. 武宇, 李牧知, **李延通**. 科学技术指标体系设计及评价[J]. 科技导报, 2019, 37(19):12-18.

II---获得荣誉

- 2025 年获全国第四届高校数智化商业决策创新大赛教师组一等奖,
- 2022 年获中国物流与采购联合会科学技术进步一等奖、
- 中国商业联合会科技进步一等奖,
- 2023 年获 IEEE ICNSC 最佳论文提名奖。

II---指导研究生情况

- 硕士研究生
已毕业硕士研究生 4 人, 在读硕士研究生 12 人。
- 博士研究生
在读博士研究生 3 人。

II---招生信息

- 博士招生方向: 物流与供应链管理
博士招生专业及名额----管理科学与工程 1-2/年
- 硕士(学术)招生方向: 物流与供应链管理、智慧物流与智慧交通、智慧港口管理
硕士招生专业及名额
----管理科学与工程(学硕 087100) 1-2 名/年
----工业工程与管理(专硕 125603) 2-3 名/年
----交通运输(专硕 086100) 1 名/年

欢迎有兴趣、有热情、有团队合作精神的同学报考硕士研究生。如硕士毕业后有进一步深造意向, 可推荐至国内外知名高校攻读博士学位。非常欢迎有科研热情的在校本科生参与项目研究。