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Research Area

Optimization of Railway Transport Organization

Transport Economics

Option Theory and Supply Chain Risk Evaluation

Artificial Intelligence and Deep Learning Machine Learning

Google Scholar:

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ResearchGate:

<https://www.researchgate.net/profile/Jingwei-Guo-10/research>

Publication



Papers

- ◆ Guo, J.W., Wang, W., Tang, Y.Y., Zhang Y.X., Zhuge, H.Y. (2022). A CNN-Bi_LSTM Parallel Network Approach for Train Travel Time Prediction. Knowledge-Based Systems, 256 (2022), Article ID 109796. (SCI)
- ◆ Guo, J.W., Wang, Y.M., Qin, Y., Li, Q.L., Xie, Z.Q., and Qin, X. (2022). Factors Affecting Evaluation of Railway Bulk Freight Rate: A Novel Cloud Theory-Based Approach. Journal of Advanced Transportation, 2022, Article ID 6661425. (SCI)
- ◆ 郭豪飛，郭經緯(通訊作者)，吳靜成，林福根 (2022). 基於客運分擔率的公路優勢市場定位研究，公路，2022,67 (02), 149-154. (北大核心)
- ◆ Guo, J.W., Zhang, J., Zhang, Y.X., Xu, P.J., Li, L.T., Xie, Z.Q., Li, Q.L. (2021). An improved density-based approach to risk assessment on railway investment. Data Technologies and Applications, 56(3), 382-408.(SSCI & SCI)
- ◆ Guo, J.W., Li, L.T., Zhang, J., Shen, Q., Xie, Z.Q., Li, Q.L. (2021). A Theory Approach towards Tradable Rail Freight Option. Discrete Dynamics in Nature and Society, 2021, Article ID 6661425. (SCI)
- ◆ Xu, P.J., Zhang, D.W., Guo, J.W., Liu, D., Peng, H. (2021). Integrated Train Rescheduling and Rerouting during Multidisturbances under a Quasi-Moving Block System. Journal of Advanced Transportation, 2021, Article ID 6652531. (SCI)
- ◆ Guo, J.W., Xie, Z.Q., Li, Q.L. (2020). Stackelberg Game Model of Railway Freight Pricing Based on Option Theory, Discrete Dynamics in Nature and Society, 2020, Article ID 6436729. (SCI)
- ◆ Li, Q.L., Rezaei, J., Tavasszy, L.A., Wiegmans, B., Guo, J.W., Tang, Y.Y., Peng, Q.Y. (2020). Customers' preferences for freight service attributes of China Railway Express. Transportation Research Part A: Policy and Practice. 142(12), 225-236. (SSCI & SCI)
- ◆ 李青林，彭其淵，郭經緯，湯銀英，張卓 (2020). 基於BWM的中歐班列客戶需求偏好異質性研究，交通運輸系統工程與資訊. 20(03), 28-32. (EI, 卓越行動計畫梯隊期刊)



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Papers

- ◆ Guo, J.W., Wang, J., Li, Q.L., Guo, B.H. (2019). Construction of prediction model of neural network railway bulk cargo floating price based on random forest regression algorithm. *Neural Computing and Applications*, 31(12), 8139–8145. (SCI)
- ◆ 詹嘉俊, 郭經緯(通訊作者), 諸葛恒英 (2019). 我國鐵路貨運量增長不對稱性研究. *鐵道貨運*. 37(11), 22-27.
- ◆ 王文憲, 郭經緯(通訊作者), 王建, 潘金山 (2018). 多類型乘用車裝載方案優化應用研究, 數學的認識與實踐, 38(03), 125-130. (CSCD)
- ◆ 王文憲, 況榕, 郭經緯, 呂紅霞 (2017). 鐵路專用線危險貨物運輸安全指標屬性約簡研究, 中國安全生產技術, 13(11), 59-65. (CSCD)
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- ◆ 李建光, 彭其淵, 郭經緯(通訊作者), 孫嘉欣, 文超 (2017). 鐵路中小型運輸服務商運輸效益考核方法研究, *鐵道運輸與經濟*, 39(1), 18-23. (北大核心)
- ◆ 王文憲, 倪少權, 呂紅霞, 郭經緯 (2015). 基於非集計理論的高速鐵路旅客乘車選擇行為研究, *交通運輸系統工程與資訊*, 15(03), 13–18. (EI, 卓越行動計畫梯隊期刊)
- ◆ 郭經緯, 彭其淵(2015). 帶跳躍的鐵路貨運期權定價模型, *交通運輸系統工程與資訊*, 15(02), 195-202. (EI, 卓越行動計畫梯隊期刊)
- ◆ 徐培娟, 彭其淵, 文超, 郭經緯, 占曙光 (2014). 基於 THERP—Markov 原理的高鐵列調人因可靠性分析, *交通運輸系統工程與資訊*, 14(06), 133-140. (EI, 卓越行動計畫梯隊期刊)



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- ◆ 郭經緯, 彭其淵 (2014). 基於三叉樹期權理論的鐵路貨運定價模型, 交通運輸系統工程與資訊, 14(04), 192-200. (EI, 卓越行動計畫梯隊期刊)
- ◆ 郭經緯, 彭其淵 (2014). 離散時間問題中政府調控對鐵路貨運的經濟影響分析. 交通運輸系統工程與資訊, 14(02), 25-32. (EI, 卓越行動計畫梯隊期刊)

Conferences

- ◆ Yang, T., Zhang, D.Y., Guo, J.W. (2021). Study on the choice of transportation mode in Zheng-Jiao Transportation Corridor. International Conference on Internet of Things and Smart City, IoTSC 2021. (EI)
- ◆ Zhang, J., Yang, T., Guo, J.W. (2021). Study on Discrete Railway Bulk Transportation Option Based on Game Theory. International Conference on Internet of Things and Smart City, IoTSC 2021. (EI)
- ◆ Lin, F.G., Guo, J.W., Zhu, M.T., Guo, H.F. (2019). Research on the passenger flow forecast of the interurban railway of central Henan urban agglomeration in the future. Proceedings of the 19th COTA International Conference of Transportation Professionals, CICTP 2019. (EI)
- ◆ Guo, H.F., Guo, J.W., Zhao, J.H., Lin, F.G. (2019). Analysis of influencing factors of intercity passenger residence time based on survival analysis theory. Proceedings of the 6th International Conference on Transportation Engineering, ICTE 2019. (EI)
- ◆ Li, L.T., Guo, J.W. (2019). Analysis of the problems in China's railway freight pricing system, 2019 3th International Conference on Traffic Engineering and Transportation System, IC-TETS 2019. (EI)
- ◆ 郭經緯, 彭其淵 (2014). 連續時間問題中政府調控對鐵路貨運的短期經濟分析. 中國系統工程學會第十八屆學術年會.
- ◆ 郭經緯, 彭其淵 (2014). 大秦鐵路重載運輸技術經濟屬性研究. 鐵路重載運輸技術交流會.



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- ◆ 郭經緯, 王文憲 (2013). 基於博弈論的個人出行選擇均衡模型. 2013 全國博士生學術論壇.

Research projects

Principal Investigator:

- ◆ 鐵路大宗貨物運價期權化動態柔性調整理論與方法研究. 國家自然科學基金 (61803147), 2019.01-2021.12.
- ◆ 基於出行鏈式機理的中原城市群城際鐵路客流時空分佈分配理論及方法研究. 河南省科技攻關專案 (182102310799), 2018.01-2021.11.
- ◆ 中原城市群城際鐵路客運產品關鍵技術研究. 河南省高等學校重點科研項目計畫 (18A580003), 2018.01-2020.12.
- ◆ 中原城市群城際鐵路客流時空分佈分配理論及方法研究. 中央高校基本科研業務費專項專案(NSFRF180417), 2018.01-2023.02.

Co-Investigator:

- ◆ 嚴重干擾下多運用模式協同輸入的高速鐵路網動車組運用計畫調整理論與方法研究(72201268), 國家自然科學基金, 2023.01-2025.12, 參與.
- ◆ 考慮時變不確定客流需求的高速鐵路混合週期運行圖編制理論與方法(72201218), 國家自然科學基金, 2023.01-2025.12, 參與.
- ◆ 基於不確定客流需求的高速鐵路列車開行方案與週期運行圖協同優化. 四川省自然科學基金(23NSFSC2293), 2023.01-2024.12, 參與.
- ◆ 面向複雜山區鐵路的列車節能運行圖編制優化與調整方法(2682022CX028), 中央高校基本業務經費專案, 2022.04-2024.04, 參與.
- ◆ 國際鐵路聯運運輸便利化研究. 國家鐵路局運輸監督管理司技術服務專案 (TYFH201938), 2019.01-2020.12, 參與.



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Publication



- ◆ 貨運增量關鍵技術研究之中歐班列全程物流運作關鍵技術及貨源組織策略優化方案. 中國鐵路總公司科技開發計畫 (P2018X003), 2018.01-2019.12, 參與.
- ◆ 鐵路市場化經營技術研究——中歐班列跨境物流運營模式研究. 中國鐵路總公司科技開發計畫重大課題(2017X010-O), 2017.01-2018.12, 參與.
- ◆ 鄭焦城際交通與區域經濟發展互動關係研究. 河南省社科聯 (SKL-2017-3149) , 2017.01-2017.12, 參與.
- ◆ 鐵路現代物流經營關鍵技術研究——中歐班列總體規劃佈局及關鍵技術研究. 中國鐵路總公司科技開發計畫重大課題(2016X007-C), 2016.01-2017.12, 參與.
- ◆ 鐵路貨運改革關鍵技術研究——鐵路貨物運輸價格浮動管理機制及貨運價格管理體系研究. 中國鐵路總公司科技研究開發專案(2014X009-K), 2014.01-2015.12, 參與.
- ◆ 中鐵三局集團有限公司運輸分公司成本核算及運輸效益考核方法研究. 企業委託項目, 2014.01-2015.12, 參與.
- ◆ 成都市二環路快速公交升級為軌道交通可行性研究. 企業委託項目, 2013.01-2013.12, 參與.
- ◆ 西昌市現代有軌電車建設適應性研究. 企業委託項目, 2013.01-2013.12, 參與.
- ◆ 電子商務條件下鐵路貨運行銷體系構建與貨運組織流程優化技術研究. 中國鐵路總公司科技研究開發專案 (2013X008-A-1), 2013.01-2014.12, 參與.
- ◆ “走出去”戰略相關技術問題研究——中老鐵路專案建設與經營的研究. 中國鐵路總公司科技研究開發專案 (2011Z014-A), 2011.01-2014.12, 參與.



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Publication



Patent

- ◆ Jingwei Guo, Graded Early Warning System for Rollover of Heavy-Dutytruck Based On Time-Varying Interactive Kalman Filtering and Early Warning Method Thereof, United States Utility Patent, No:16/246,533
- ◆ Jingwei Guo, Wind-Gathering Blade for Cooling Brake Pad, Invention patent in the Republic of South Africa , No: 2019/00132
- ◆ 郭經緯, 郭豪飛, 李錄甜, 吳靜成. 一種血小板水準式運轉振盪儀, 專利號: 201910481264.6 (已授權國家發明專利).
- ◆ 郭經緯, 一種血小板水準式運轉振盪儀, 專利號: 201910481264.6 (已授權國家發明專利).
- ◆ 郭經緯, 吳清遠, 詹嘉俊, 謝鐘棋, 李錄甜, 秦欣. 一種血小板滾動式運轉振盪儀, 專利號: 201910481750.8 (已授權國家發明專利).
- ◆ 郭經緯, 一種對冰凍新鮮血漿運輸的周轉袋及方法, 專利號: 201810088489.0 (已授權國家發明專利).
- ◆ 郭經緯, 一種汽車側滑阻滯裝置. 專利號: 201710024911.1 (已授權國家發明專利).
- ◆ 郭經緯, 一種血小板轉運震盪儀. 專利號: 201710045928.5 (已授權國家發明專利).
- ◆ 郭經緯, 一種血液恆溫運輸周轉箱. 專利號: 201710024904.1 (已授權國家發明專利).
- ◆ 郭經緯, 一種對血袋運輸前進行包裝的包裝裝置. 專利號: 201710028416.8 (已授權國家發明專利).
- ◆ 郭經緯, 郭建社. 一種全自動配平旋轉離心分離方法及全自動離心分離機. 專利號: 201210026368.6 (已授權國家發明專利).
- ◆ 郭經緯, 郭建社, 周叢章. 一種多向離心式連續性血液成分分離設備. 專利號: 200510017870.0 (已授權國家發明專利).