

Yuanzheng Lei

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Born: March 25, 1997—Hunan, China

Nationality: China

Research Interest

Transportation; Applied statistics; Optimization; Operations research; Applied mathematics.

Research Experience

- 2019-2022 **National United Engineering Laboratory of Integrated and Intelligent Transportation, Chengdu, Sichuan, China** Project: Regional Rail Transit Collaborative Transportation and Service System
- 2019-2022 **National United Engineering Laboratory of Integrated and Intelligent Transportation, Chengdu, Sichuan, China** Project: A Hybrid Simulation System of Multi-modal Rail Transit Trains Operation of the Chengdu-Chongqing Economic Circle

Education

- 2015-2019 BSc in Railway Engineering, Southwest Jiaotong University, Chengdu
- 2019-2022 MSc in Transportation Planning and Management, Southwest Jiaotong University, Chengdu
- 2022-present PhD STUDENT in Transportation Engineering, University of Maryland, College Park

Publications and Preprint

JOURNAL ARTICLES

- 2022 Yuanzheng Lei, Gongyuan Lu, Hongxiang Zhang, Bisheng He and Jinxin Fang, “Optimizing total passenger waiting time in an urban rail network: A passenger flow guidance strategy based on a multi-agent simulation approach,” **Simulation Modelling Practice and Theory**
- 2022 Hongxiang Zhang, Gongyuan Lu, Yuanzheng Lei, Guangyuan Zhang and Irene Niyitanga, “A hybrid framework for synchronized passenger and train traffic simulation in an urban rail transit network,” **International Journal of Rail Transportation**
- 2022 Gongyuan Lu, Yuanzheng Lei and Hongxiang Zhang, “Passenger flow control strategy of urban rail transit based on Multi-Agent Simulation,” **Journal of Tongji University(Natural Science)**
- 2023 Yuanzheng Lei, Yao Cheng, Zhang Yi and Xianfeng Terry Yang, “Translatable Explicit Model Predictive Control Framework for Connected and Automated Vehicles Eco-Trajectory Planning,” **Preprint submitted to Transportation Research Part B: Methodological**

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