Yuanzheng Lei

Department of Civil and Environmental Engineering, University of Maryland 1173 Glenn L.Martin Hall, College Park, MD 20742, United States

Mobile: 202-860-5391 Email: yzlei@umd.edu

URL: https://yuanzhenglei.github.io/

Born: March 25, 1997— Hunan, China

Nationality: China

Research Interest

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

Research Experience

National United Engineering Laboratory of Integrated and Intelligent Transportation, Chengdu,

Sichuan, China Project: Regional Rail Transit Collaborative Transportation and Service System

National United Engineering Laboratory of Integrated and Intelligent Transportation, Chengdu,

Sichuan, China Project: A Hybrid Simulation System of Multi-modal Rail Transit Trains Op-

eration of the Chengdu-Chongqing Economic Circle

Education

2019-2022

2019-2022

2022

2022

2023

2015-2019 BSc in Railway Engineering, Southwest Jiaotong University, Chengdu

2019-2022 MSC in Transportation Planning and Management, Southwest Jiaotong University, Chengdu

sent PhD student in Transportation Engineering, University of Maryland, College Park

Publications and Preprint

JOURNAL ARTICLES

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

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**

Gongyuan Lu, <u>Yuanzheng Lei</u> and Hongxiang Zhang, "Passenger flow control strategy of urban

rail transit based on Multi-Agent Simulation," Journal of Tongji University(Natural Science)

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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