

RESUME

Personal information

Name: Kai Huang **Gender:** Male
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Add: Department of Civil Engineering, Monash University, Melbourne, Australia



Education Experience

- Ph.D Student of Civil Engineering (Transportation Engineering), Monash University, Australia 11/2016
- Research Project- Network planning and operation strategies design for one-way carsharing systems -present
- Master of Transportation Systems, Monash University, Melbourne, Australia 03/2015
- Research Project-The research of Carpooling -03/2017
- Master of Transportation Engineering, Southeast University, Nanjing, China 09/2014
- Research Project-Analysis of the Influencing Factors of Carpooling -06/2016
- Bachelor of Transportation Engineering, Huaiyin Institute of Technology, Huaian, China 09/2010
- Graduation Project-Design of Carpooling Based Fixed Time and Route -07/2014

Research Experience

- Jiangsu Industrial Technology Research Institute and Monash University Joint Funding - Co-PI 2016
Green Travel Models in Smart Cities: Coordination Studies and Integration Platform, -present
¥ 4,000,000
- National undergraduate practice and innovation plan program- The study of carpooling in PI 2014
Huaian city, ¥ 5,000 -2015
- The Open Project of Public Security - Researches on characteristics of driving rage and Research 2016
intervention method in China, ¥ 30,000 Assistant -2017
- National Natural Science Foundation of China - Network Design and Optimization Methods Research 2018
of a New Park and Rode Scheme based on Multimodal Combined Trips, ¥ 490,000 Assistant -present
- The 13th Five-Year planning for comprehensive transport of Shandong Province, ¥ 300,000 Research 2015
Assistant -2016
- National Natural Science Foundation of China – Study of Road Capacity in Bus Lane with Research 2015
Intermittent Priority, ¥ 250,000 Assistant -2018

Work Experience

- Internship, The Traffic Management Research Institute of the Ministry of Public Security of China, China 09/2015
- Research Project-Analysis of the Driving Behavior, Design and Application of Simulated Driving Platform -02/2016

Publications (17 papers)

Selected Papers

- Huang, K., Correia, G., An, K. *. Solving the Station-Based One-way Carsharing Network Planning Problem with Relocations and Non-linear Demand. *Transportation Research Part C*. Vol. 90, pp. 1-17. 2018. (SCI, IF:3.805)
- Huang, K., Liu, Z. *, Kim, I., Zhang, Y. Analysis of the Influencing Factors of Fixed Time and Route Carpooling Schemes. *IEEE Intelligent Transportation Systems Magazine*. (Accept) (SCI, IF:3.654)

Selected Invention Patent and Software Patent

- The pricing method of taxi sharing scheme at Large transport terminals. 201610029345.9. China
- Cordon-Based Congestion Pricing: A Trial-And-Error Method with Traffic Counts. 201510883352.0. China

Professional Association

- Reviewer of Journal of Advanced Transportation, IET ITS, Journal of Transportation Engineering

Featured Skills

- Programming language: Python
 - Optimization solver: GUROBI, AMPL
 - Statistics software: SPSS, STATE
 - Transportation software: VISSIM, AutoCAD
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