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EDUCATION

Graduate Certificate of Academic Practice, Monash University Australia, 2013-2015

Ph.D in Transportation Engineering, National University of Singapore, 2007-2011

- Research Area: Transportation Planning and Network Optimization
- Supervisor: Prof. Qiang Meng

Bachelor of Engineering in Transportation Engineering, Southeast University, China, 2003-2007

Minor in Industry & Business Management, Southeast University, China, 2004-2006

WORKING EXPERIENCE

2016/09 – current, **Deputy Head**, Department of Transport Engineering; School of Transportation, Southeast University

2015/06 – current, **Professor**, School of Transportation, Southeast University

2015/06 – current, **Board Member**, Research Committee, School of Transportation, Southeast University

2017/12 – 2018/01, **Academic Visitor**, School of Mathematics and Statistics, the University of Melbourne, Australia

2012/09 – 2015/06, **Lecturer**, Department of Civil Engineering, Monash University

- 2013/09 – 2015/06, **Director** of the Master of Transportation Systems, SEU-Monash Joint Master Program.

2011/09 – 2012/09 **Research Fellow**, Civil and Environmental Engineering Department, National University of Singapore

- Task: Modelling and Computer Programming for Urban Planning and Maritime Shipping Network Design; Presenting achievements on behalf of the research team; Teamwork with industrial partners from APL Co.

2010/10 - 2011/05 **Part-time Research Engineer**, Centre for Maritime Studies, National University of Singapore

- Collaborator of the research project: Liner Shipping Service Network Design

RESEARCH INTERESTS

Transportation network modeling and algorithm development

Bid Data and Parallel Computing in Transportation

Transportation Planning and Management

Public Transport

Logistics Network Analysis

Transport Safety and Control

PUBLICATIONS

Scholarly Book or Book Chapter

1. Wang, S. and Liu, Z., 2015. Efficient Global Container Transport Network Design. In: Lee, C.-Y. and Meng, Q. (Eds.), *Ocean Container Transport Logistics – Making Global Supply Chain Effective*, Elsevier.
2. Liu, Z., 2012. The application and implementation of Intelligent Transport System in Singapore. In Huang, G. et al. (ed.) *Blue book of Internet of Things*, Social Sciences Academic Press, China.
3. Liu, Z., 2011. Probit-based Stochastic User Equilibrium and Their Applications in Congestion Pricing, PhD Thesis, National University of Singapore.

SCI/SSCI Journal Papers (first or corresponding author: 51)

1. Liu, Y., Liu, Z.*, and Jia, R., 2019. DeepPF: A Deep Learning Based Architecture for Metro Passenger Flow Prediction. *Transportation Research Part C*, 101, 18-34.
2. Liu, Z.*, Zhang, L., and Wang, Z., 2019. Models and Technologies for Transport System Flow Analysis. *Journal of Advanced Transportation*. DOI: 10.1155/2019/6964943.
3. Cheng, Q., Xing, J., Yi, W., Liu, Z.*, and Fu, X., 2019. Distance-Based Congestion Pricing with Day-to-Day Dynamic Traffic Flow Evolution Process. *Discrete Dynamics in Nature and Society*, 2019. DOI: 10.1155/2019/7438147
4. Chen, J., Jia, S., Wang, S.*, and Liu, Z., 2018. Subloop-based reversal of port rotation directions for container liner shipping network alteration, *Transportation Research Part B*. 118, 336-361.

5. Chen, J., **Liu, Z.***, Wang, S., and Chen X., 2018. Continuum approximation modeling of transit network design considering local route service and short-turn strategy, *Transportation Research Part E*. 119, 165-188.
6. Liu, Y., Jia, R., Xie, X., and **Liu, Z.***, 2018. A Two-Stage Destination Prediction Framework of Shared Bicycle Based on Geographical Position Recommendation, *IEEE Intelligent Transport System Magazine*. DOI: 10.1109/MITS.2018.2884517
7. **Liu, Z.***, Chen, X., Meng, Q., and Kim, I., 2018. Remote Park-and-Ride Network Equilibrium Model and Its Applications, *Transportation Research Part B*, 117, 37-62.
8. Xing, J., **Liu, Z.***, Wu, C. and Chen, S., 2018. Traffic Volume Estimation in Multimodal Urban Networks Using Mobile Phone Location Data, *IEEE Intelligent Transport System Magazine*.
9. Huang, D., Gu, Y., Wang, S., **Liu, Z.***, and Chen, J., 2018. An Incentive Dynamic Programming Method for the Optimization of Scholarship Assignment, *Discrete Dynamics in Nature and Society*. DOI:10.1155/2018/5206131.
10. Gu, Z., Shafiei, S., **Liu, Z.**, and Saberi, M.*, 2018. Optimal distance- and time-dependent area-based pricing with the Network Fundamental Diagram, *Transportation Research Part C*. 95, 1-28.
11. **Liu, Z.**, Wang, S., Huang, K., Chen, J.*, and Fu, Y. Practical Taxi Sharing Scheme at Large Transport Terminals, *Transportmetrica B*. in press. DOI:10.1080/21680566.2018.1453391.
12. Huang, K., **Liu, Z.***, Kim, Y., Zhang, Y., Zhu, T. Analysis of the influencing factors of carpooling schemes. *IEEE Intelligent Transportation Systems Magazine*. in press.
13. Tang, K.*, Chen, S., and **Liu, Z.**, 2018. A Tensor-Based Bayesian Probabilistic Model for Citywide Travel Time Estimation Using Sparse Trajectories. *Transportation Research Part C*, 90, 260-280, DOI: 10.1016/j.trc.2018.03.004
14. Xu, M., Meng*, Q., and **Liu, Z.**, 2018. Electric vehicle fleet size and trip pricing for one-way carsharing services considering vehicle relocation and personnel assignment, *Transportation Research Part B*, 111, 60-82, DOI: 10.1016/j.trb.2018.03.001
15. Tang, K., Chen, S.* and **Liu, Z.**, 2018. Citywide Spatial-temporal Travel Time Estimation Using Big and Sparse Trajectories. *IEEE Transactions on Intelligent Transport Systems*. 99, 1-12. DOI: 10.1109/TITS.2018.2803085
16. Huang, D., **Liu, Z.***, Fu, X. and Blythe, P.T. Bus Network Design in a Multimodal Hub-and-Spoke Network Framework. *Transportmetrica A*. 14(8), 706-735. DOI: 10.1080/23249935.2018.1428234
17. Gu, Z., Saberi, M.*, Sarvi, M., **Liu, Z.**, 2018. A big data approach for clustering and calibration of link fundamental diagrams for large-scale network simulation applications. *Transportation Research Part C*, 94, 151-171.
18. Chen, J., Wang, S., **Liu, Z.***, and Guo, Y., 2018. Network-based optimization modeling of manhole setting for pipeline transportation, *Transportation Research Part E*. 113, 38-55. doi: 10.1016/j.tre.2018.01.010
19. Yang, J.*, Dong, J., Zhang, Q., **Liu, Z.**, and Wang, W, 2018. An Investigation of Battery Electric Vehicle Driving and Charging Behaviors Using Vehicle Usage Data Collected in Shanghai, China. *Transportation Research Record*. 2672(24), 20-30. DOI: 10.1177/0361198118759015.
20. Gong, X., Currie, G.*, **Liu, Z.** and Guo, X., 2018. Exploring Rail Transit Bus-Tram Feeder Transfer Penalties Using Revealed Preference Method, *Transportation*. DOI: 10.1007/s11116-017-9768-0
21. Chen, J., Wang, S., **Liu, Z.***, and Chen, X., 2018. Network-level Optimization of Bus Stop Placement in Urban Areas, *KSCSE Journal of Civil Engineering*. 22(4), 1446-1453.
22. **Liu, Z.**, Yu, B., Gu, Z.*, Zhong, N., 2018. Intermodal Transportation of Modular Structure Unit, *World Review of Intermodal Transportation Research*, 7(2), 99-123.
23. Wang, K., Liu, W., Wang, S., and **Liu, Z.***, 2017. Optimal Reefer Slot Conversion for Container Freight Transportation. *Maritime Policy and Management*. 44(6), 727-743. DOI: 10.1080/03088839.2017.1335899
24. **Liu, Z.**, Zhang, Y., Wang, S., Li, Z.*, 2017. A trial and error method with autonomous vehicle-to-infrastructure traffic counts for cordon-based congestion pricings. *Journal of Advanced Transportation*. DOI:10.1155/2017/9243039
25. Bie, Y. and **Liu, Z.***, Wang, Y., 2017. A Real-time Traffic Control Method for the Intersection with Pre-signals under the Phase Swap Sorting Strategy, *Plos One*. 12(5), 1-22. DOI: 10.1371/journal.pone.0177637. ISSN: 1932-6203
26. **Liu, Z.***, Wang, S., Zhou, B., and Cheng, Q., 2017. Robust Optimization of Distance-based Tolls in a Network Considering Stochastic Day to Day Dynamics, *Transportation Research Part C*, 79, 58-72.
27. Chen, J., Wang, S., **Liu, Z.***, and Wang, W., 2017. Design of Suburban Bus Route for Airport Access. *Transportmetrica Part A*, 13(6), 568-589.
28. **Liu, Z.***, Yi, W., Wang, S. and Chen, J., 2017. On the Uniqueness of User Equilibrium Flow with Speed Limit, *Networks and Spatial Economics*, 17(3), 763-775. DOI:10.1007/s11067-017-9343-4.
29. Bie, Y., Cheng, S., **Liu, Z.***, 2017. Optimization of Signal-timing Parameters for the Intersection with Hook turns. *Transport*, 32(2), 233-241. DOI: 10.3846/16484142.2017.1285813

30. Wang, S., **Liu, Z.***, and Qu, X., 2017. Weekly Container Delivery Pattern in Liner Shipping Planning Models, *Maritime Policy & Management*, 44(4), 442-457. DOI: 10.1080/03088839.2017.1295327
31. Qu, X., Yi, W., Wang, T.*, Wang, S., Xiao, L. and **Liu, Z.**, 2017. Mixed-integer linear programming models for teaching assistant assignment and extensions. *Scientific Programming*. DOI: 10.1155/2017/9057947
32. Huang, D., **Liu, Z.***, Liu, P, Chen, J., 2016. Optimal transit fare and service frequency of a nonlinear origin destination based fare structure, *Transportation Research Part E*, 96, 1-19.
33. Lu, L., Gu, Z., Huang, D., **Liu, Z.***, and Chen J., 2017. An Evaluation Framework for the Public Information Guidance System, *KSCE Journal of Civil Engineering*. 21(5), 1919-1928. DOI:10.1007/s12205-016-0888-4
34. Chen, J., Currie, G.*, **Liu, Z.**, Wang, W., and Li, Z., 2016. Should Optimal Stop Spacing Vary by Land Use Type? - New Methodology, *Transportation Research Record*, 2543, 34-44. DOI:10.3141/2543-04
35. Gu, Z., **Liu, Z.***, Nirajan S. and Yang, M., 2016. Video-based analysis of school students' emergency evacuation behavior in earthquakes, *International Journal of Disaster Risk Reduction*, 18, 1-11.
36. **Liu, Z.***, Wang, S., Chen, W. and Zheng, Y., 2016. Willingness to Board: A Novel Concept for Modeling Queuing Up Passengers, *Transportation Research Part B*, 90, 70-82.
37. Weng, J., Zhu, J.-Z., Yan, X. and **Liu, Z.***, 2016. Investigation of Work Zone Crash Casualty Patterns Using Association Rules, *Accident Analysis and Prevention*, 92, 43-52.
38. Chen, X., **Liu, Z.***, Currie, G., 2016. Optimizing location and capacity of rail-based park-and-ride sites to increase transit mode share. *Transportation Planning and Technology*. 39(5), 507-526. DOI:10.1080/03081060.2016.1174366
39. Wang, S., **Liu, Z.***, and Qu, X., 2016. Minimax regret model for liner shipping fleet deployment with uncertain demand, *Transportation Research Record*, 2549, 45-53.
40. Yan, Y., **Liu, Z.**, Bie, Y.*, 2016. Performance Evaluation of Bus Routes Using Automatic Vehicle Location Data, *Journal of Transportation Engineering*, 142(8), DOI: 10.1061/(ASCE)TE.1943-5436.0000857
41. **Liu, Z.**, Wang S., Du, Y., and Wang, H.*, 2016. Supply chain cost minimization by collaboration between liner shipping companies and port operators, *Transportation Journal*, 55(3), 296-314
42. **Liu, Z.**, Shiwakoti, N., Bie, Y.*, 2016. Measuring the Public Acceptance of Urban Congestion Pricing: A Survey in Melbourne, Australia. *Transport*. DOI:10.3846/16484142.2016.1155170.
43. Sun, X., **Liu, Z.**, Thompson, R., Bie, Y.*, Weng, J., Chen, S., 2016. A multi-objective model for cordon-based congestion pricing schemes with nonlinear distance tolls. *Journal of Central South University*, 23(5), 1273-1282. DOI: 10.1007/s11771-016-0377-4
44. Bie, Y., **Liu, Z.***, Lu, L., 2016. Optimization of coordinated signal settings for hook-turn intersections. *Journal of Advanced Transportation*, 50(2), 197-213.
45. Bie, Y., Gong, X., and **Liu, Z.***, 2015. Time of Day Intervals Partition for Bus Schedule using GPS Data, *Transportation Research Part C*, 60, 443-456.
46. Chen, J., **Liu, Z.***, Zhu, S., and Wang, W., 2015. Design of limited-stop bus service with capacity constraint and stochastic travel time, *Transportation Research Part E*. 83, 1-15.
47. Islam, S., **Liu, Z.*** Sarvi, M. and Zhu, T., 2015. Exploring the Mode Change Behavior of Park and Ride users. *Mathematical Problems in Engineering*. DOI: 10.1155/2015/282750.
48. **Liu, Z.** and Bie, Y.*, 2015. Comparison of Hook-turn Scheme with U-turn Scheme Based on Actuated Traffic Control Algorithm, *Transportmetrica A*, 11(6), 484-501.
49. Wang, S., **Liu, Z.***, and Qu, X., 2015. Collaborative mechanisms for berth allocation, *Advanced Engineering Informatics*. 29(3), 332-338.
50. Bie, Y., **Liu, Z.***, 2015. Evaluation of a Signalized Intersection with Hook Turns under Traffic Actuated Control Circumstance. *Journal of Transportation Engineering*. 141(5), DOI: 10.1061/28ASCE29TE.1943-5436.0000763
51. Wang, S.*, **Liu, Z.**, Bell, M., 2015. Profit-based maritime container assignment models for liner shipping networks, *Transportation Research Part B*, 72, 59-76.
52. Yang, M.*, Zhao, J., Wang, W., **Liu, Z.** and Li, Z., 2015. Metro Commuters' Satisfaction in Multi-type Access and Egress Transferring groups, *Transportation Research Part D*, 34, 179-194.
53. Zheng, Z.*, **Liu, Z.**, Liu, C. and Shiwakoti, N., 2014. Understanding public response to a congestion charge: a random-effects ordered logit approach using revealed and stated preference data, *Transportation Research Part A*, 70, 117-134.
54. **Liu, Z.***, Wang, S. and Meng, Q., 2014. Toll pricing framework under logit-based stochastic user equilibrium constraints, *Journal of Advanced Transportation*, 48, 1121-1137.

55. Wang, S., **Liu, Z.**, Meng, Q.*, 2014. Segment-based alteration for container liner shipping network design, *Transportation Research Part B*, 72, 128-145.
56. **Liu, Z.***, Wang, S., Meng, Q., 2014. Optimal Joint Distance and Time Toll for Cordon-based Congestion Pricing, *Transportation Research Part B*, 69, 81-97.
57. Bie, Y.*, **Liu, Z.**, Li, Y., Pei, Y., 2014. Development of a New Platoon Dispersion Model Considering Turning Vehicles in Urban Road Environment, *Advances in Mechanical Engineering*, 2014, 1-8.
58. Qu, X., Yang, Y., **Liu, Z.**, Jin, S.* and Weng, J., 2014. Potential Crash Risks of expressway on-ramps and off-ramps: a case study in Beijing, China, *Safety Science*, 70, 58-62.
59. Wang, S., Wang, T.*, Qu, X., **Liu, Z.**, and Jin, S., 2014. Liner Ship Fleet Deployment with Uncertain Demand. *Transportation Research Record*, 2409, 49-53.
60. **Liu, Z.*** and Meng, Q., 2014. Bus-based park-and-ride system: a stochastic model on multimodal network with congestion pricing schemes, *International Journal of Systems Science*, 45(5), 994-1006.
61. Meng, Q. and **Liu, Z.*** and Wang S., 2014. Asymmetric Stochastic User Equilibrium Problem with Link Capacity Constraints and Elastic Demand, *Transportmetrica A*. 10(4), 304-326.
62. **Liu, Z.***, Meng, Q., and Wang S., 2014. Variational inequality model for cordon-based congestion pricing under side constrained stochastic user equilibrium conditions, *Transportmetrica A*, 10(8), 693-704.
63. **Liu, Z.**, Meng, Q.*, Wang, S., Sun, Z., 2014. Global Intermodal Liner Shipping Network Design, *Transportation Research Part E*, 61, 28-39.
64. Sun, L., Meng, Q.* and **Liu, Z.**, 2013. Transit Assignment Model Incorporating Bus Dwell Time, *Transportation Research Record*, 2352, 76-83.
65. Wang, S., Meng, Q. and **Liu, Z.***, 2013. A Note on "Berth Allocation Considering Fuel Consumption and Vessel Emissions", *Transportation Research Part E*, 49(1), 48-54.
66. Qu, X., Meng, Q. and **Liu, Z.***, 2013. Estimation of number of fatalities caused by toxic gases due to fire in road tunnels, *Accident Analysis and Prevention*, 50, 616-621.
67. Wang, S., Meng, Q.*, **Liu, Z.**, 2013. Fundamental properties of volume-capacity ratio of a private toll road in general networks, *Transportation Research Part B*, 47, 77-86.
68. Bie, Y., **Liu, Z.**, Ma, D.*, Wang, D., 2013. Calibration of platoon dispersion parameter considering the impact of number of lanes, *Journal of Transportation Engineering*, 139(2), 200-207.
69. Wang, S., Meng, Q.* and **Liu, Z.**, 2013. On the weighting of the mean-absolute-deviation cost minimization model, *Journal of Operational Research Society*, 64, 622-628.
70. **Liu, Z.** and Meng, Q.*, 2013. Distributed Computing Approaches for Large-scale Probit-based Stochastic User Equilibrium Problems, *Journal of Advanced Transportation*, 47, 553-571.
71. Yan, Y., **Liu, Z.***, Meng, Q., Yu, J. 2013. Robust Optimization Model of Bus Transit Network Design with Stochastic Travel Time, *Journal of Transportation Engineering*, 139(6), 625-634.
72. Wang, S., **Liu, Z.** and Meng, Q.*, 2013. Systematic network design for liner shipping services, *Transportation Research Record*, 2230, 16-23.
73. Wang, S., Meng, Q.* and **Liu, Z.**, 2013. Bunker Consumption Optimization Methods in Shipping: A Critical Review and Extensions, *Transportation Research Part E*, 53, 49-62.
74. **Liu, Z.**, Meng, Q.* and Wang, S., 2013. Speed-based Toll Design for Cordon-Based Congestion Pricing Scheme, *Transportation Research Part C*, 31, 83-98.
75. **Liu, Z.**, Yan, Y.*, Qu, X., and Zhang, Y. 2013. Bus stop-skipping scheme with random travel time, *Transportation Research Part C*, 35, 46-56.
76. Wang, S., Meng, Q.*, and **Liu, Z.**, 2013. Containership scheduling with transit-time-sensitive container shipment demand, *Transportation Research Part B*, 54, 68-83.
77. Meng, Q.*, Wang, S. and **Liu, Z.**, 2012. Network Design for Shipping Service of Large-scale intermodal liners, *Transportation Research Record*, 2269, 42-50.
78. Meng, Q.* and **Liu, Z.**, 2012. Mathematical Models and Computational Algorithms for Probit-based Asymmetric Stochastic User Equilibrium Problem with Elastic Demand, *Transportmetrica A*, 8(4), 261-290.
79. Meng, Q.* and **Liu, Z.**, 2012. Impact Analysis of Cordon-based Congestion Pricing Scheme on Mode-Split of Bimodal Transportation Network, *Transportation Research Part C*, 21(1), 134-147.
80. Meng, Q., **Liu, Z.*** and Wang, S., 2012. Optimal distance tolls under congestion pricing and continuously distributed value of time, *Transportation Research Part E*, 48(5), 937-957.

81. Meng, Q.* and Liu, Z., 2011. Trial-and-Error Method for Congestion Pricing Scheme under Side-Constrained Probit-based Stochastic User Equilibrium Conditions, *Transportation*, 38(5), 819-843.

Other Journal Papers (EI-Indexed)

1. 付晓, 顾宇, 刘志远, 2019. 多模式公交网络中考虑定制公交的活动与出行建模, 交通运输系统工程与信息. 已接收, 待刊.
2. Huang, K., Liu, Z.*, An, K., Chen, X., 2018. The Study of Continuously Distributed VOTT with User Heterogeneity. *International Journal of Transportation*. In press.
3. Cheng, Q., Liu, Z.* and Selmoune, A., 2018, Nonlinear distance-based dynamic pricing considering congestion-level correction, *International Journal of Transportation*, 6(2), 1-8.
4. Gu, Z., Liu, Z.*, Cheng, Q., and Saberi, M., 2018. Congestion Pricing Practices and Public Acceptance: A review of evidence, *Case Studies on Transport Policy*, 6, 94-101.
5. Cheng, Q., Liu, Z.*, Liu, F. and Jia, R., 2016. Urban dynamic congestion pricing: an overview and emerging research needs, *International Journal of Urban Sciences*. DOI:10.1080/12265934.2016.1227275
6. Cheng, W., Bie*, Y.M. and Liu, Z., 2015. Signal control scheme optimization method for intersections with Hook-turn based on motor vehicle delay. *China Journal of Highway and Transport*, 28(3), 94-101.
7. Zhu, T.*, and Liu, Z., 2015. Intelligent Transport System in China: Past, Present and Future, *Advanced Materials Research*, IEEE, DOI: 10.1109/ICMTMA.2015.146.
8. Huang, D.*, Liu, Z., and Cheng, J., 2015. The analysis and evaluation of differentiated transit fare structures, *Applied Mechanics and Materials*, 713-715, 1951-1954.
9. Chen, X.*, Liu, Z., and Deng, W., 2014. Park-and-Ride Network Design: A goal programming approach, *Advanced Materials Research*, 1030-1032, 2065-2068.
10. Chen, X.*, Liu, Z., and Deng, W., 2014. Network Design of Park-And-Ride System to Promote Transit Patronage, *Advanced Materials Research*, 1030-1032, 2050-2053.
11. Qu, X.*, Zhang, J., Wang, S., Liu, Z., 2014. Modelling Follow Up Time at a Single-lane Roundabout. *Journal of Traffic and Transportation Engineering*, 1(2), 97-102.
12. Liu, Z.*, Wang, T., Qu, X., Yan, Y., 2014. Urban Congestion Pricing: Practices and Future Development, *Applied Mechanics and Materials*, 505-506, 787-793.
13. Gong, B.W., Bie, Y.M.*, Liu, Z., 2013, A Dynamic Algorithm of Partitioning Urban Road Network into Traffic Control Subareas, *Applied Mechanics and Materials*, 409, 1398-1402.
14. Bie, Y.M.*, Wang, L., Liu, Z., 2013. A Quick Offset Optimization Method for Traffic Signal Coordination, *Applied Mechanics and Materials* 409, 1403-1406.

Conference Proceedings and Presentations

1. Huang, K., Selmoune Aya, Shen, P., Liu, Z*., 2017. Modelling for the optimal network design of the Many-to-one Custom Bus Service. At Transportation Research Congress 2017, Beijing, China, May 23-25.
2. Cheng, Q., Xing, J., Selmoune Aya, Liu, Z*., 2017. Distance-based Congestion Pricing with Day-to-day Flow Evolution: A New Robust Optimization Approach. At Transportation Research Congress 2017, Beijing, China, May 23-25.
3. 黄迪, 顾宇, 黄凯, 刘志远*, 2017. 需求响应型定制公交研究综述与发展对策. 2017 年中国城市交通规划年会. 上海, 中国, June 9-10.
4. Chen, X., Liu, Z., Kim, I*., Cheng, Q., 2017. Modelling asymmetric and non-additive P&R schemes. At COTA 2017, Shanghai, China, July 7-9.
5. Huang, K., Gu, Y., Yang, H., Kun, A., Liu, Z*., 2017. Mathematical Models for the Matching and Routing Problem of Customized Bus Service with Multiple Origins and Destinations. At COTA 2017, Shanghai, China, July 7-9.
6. Wang, K., Liu, W., Wang, S., Liu, Z*., Fu, X., 2017. Retrofitting containerships for refrigerated cargos. At TRB 96th Annual Meeting, Washington, D.C., USA, January 8-12.
7. Huang, K., Li, D., Liu, Z*., Chen, X., 2017. The value of travel time based on passengers' personal attribute. At TRB 96th Annual Meeting, Washington, D.C., USA, January 8-12.
8. Chen, X., Liu, Z., Hua, D., Kim, I*., 2016. A New Model for Rail-Based Park-And-Ride with Feeder Bus Services. At ISTS 2016, Jeju Island, Korea, June 23-25.
9. Qu, X., Wang, K., Wang, S., Etemad-Shahidi, A., and Liu, Z*., 2016. Teaching Strategies and Philosophy In Transportation Engineering: Case Studies. At HKSTS 2016, Hong Kong, December 10-12.

10. Chen, J., Currie, G.*, **Liu, Z.**, Wang, W., and Li, Z., 2016. Should Optimal Stop Spacing Vary by Land Use Type? - A New Methodology, At TRB 95th Annual Meeting, Washington, D.C., USA, January 12-16.
11. Wang, S.*, **Liu, Z.**, and Qu, X., 2016. A min-max regret model for liner shipping fleet deployment with uncertain demand, At TRB 95th Annual Meeting, Washington, D.C., USA, January 12-16.
12. Wang, S., **Liu, Z.*** and Qu, X., 2015. Berth Allocation for Containerships: Collaboration between Shipping Lines and Port Operators, at GPRA 2015, Hong Kong, 21-22 May.
13. Islam, S.*, **Liu, Z.** and Sarvi, M., 2015. Park-and-Ride network design in a bi-modal transport network optimising network reliability, at ATRF conference 2015, Sydney, Australia, September.
14. Chen, J., Currie, G.*, **Liu, Z.**, and Wang, W., 2015. Optimization of tram stop-level spacing for different land use types, at ATRF conference 2015, Sydney, Australia, September.
15. Yang, Y., Currie, G.*, Peel, V. and **Liu, Z.**, 2015. A New Index to Measure the Quality of Urban Public Transport for International Tourists, At TRB 94th Annual Meeting, Washington, D.C., USA, January 12-16.
16. Chen, X., **Liu, Z.***, and Deng, W., 2014. Park-and-Ride Network Design: A goal programming approach, at cmtee2014, Kunming, China, 30-31, July.
17. Chen, X., **Liu, Z.***, and Deng, W., 2014. Network Design of Park-And-Ride System to Promote Transit Patronage, at cmtee2014, Kunming, China, 30-31, July.
18. **Liu, Z.**, Wang, S., Qu, X. and Shiwakoti, N., 2014. Congestion Pricing with Distance Tolls: A Review and New Developments, at CICTP 2014, Changsha, China, July 4-7.
19. Sun, X., **Liu, Z.***, and Chen, S., 2014. The Equity Issue for Cordon-Based Congestion Pricing with Distance Toll, at ASCE 2nd ICVRAM, Liverpool, UK, July 13-16.
20. Chen, X., **Liu, Z.***, Islam, S. and Deng, W., 2014. Park-and-Ride Network Design in a Bi-modal Transport Network to Prompt Public Transport Mode Share, at ASCE 2nd ICVRAM, Liverpool, UK, July 13-16.
21. Wang, S., Wang, T., Qu, X., **Liu, Z.**, Jin, S., 2014. Liner Ship Fleet Deployment with Uncertain Demand, At TRB 93th Annual Meeting, Washington, D.C., USA, January 12-16.
22. Yang, M.*, Zhao, J., Wang, W., **Liu, Z.**, and Li, Z., 2014. Analysis on the Satisfaction Level of Urban Metro System Considering Multi-type Connection Trips, At TRB 93th Annual Meeting, Washington, D.C., USA, January 12-16.
23. Li, Z., Wang, W., **Liu, Z.**, Yang, C., Sun, Z., 2014. Analysis of mode choice decision and choice uncertainty between commuting and non-commuting trip chains, At TRB 93th Annual Meeting, Washington, D.C., USA, January 12-16.
24. Cao, X.*, Goh, K., and **Liu, Z.**, 2013. Factors Influencing Public Acceptance of Congestion Pricing in Melbourne, at ARRB conference 2014, Sydney, Australia, 19-22 Oct.
25. **Liu, Z.**, Wang, T., Qu, X., Yan, Y., 2013. Urban Congestion Pricing: Practices and Future Development. 3rd International Conference on Civil Engineering and Transportation (*ICCET 2013*), Kunming, China, December 14-15.
26. Gong, B., Bie, Y., and **Liu, Z.**, 2013. A Dynamic Algorithm of Partitioning Urban Road Network into Traffic Control Subareas. At The 2nd International Conference on Civil, Architectural and Hydraulic Engineering (*ICCAHE2013*), Zhuhai, China, 27-28/Jul. Applied Mechanics and Materials, 409-410, 1398-1402.
27. Bie, Y., Wang, L., and **Liu, Z.**, 2013. A Quick Offset Optimization Method for Traffic Signal Coordination. At The 2nd International Conference on Civil, Architectural and Hydraulic Engineering (*ICCAHE2013*), Zhuhai, China, 27-28/Jul. Applied Mechanics and Materials, Vols. 409-410, 1403-1406.
28. **Liu, Z.**, Meng, Q.*, Wang, S., Sun, Z., 2013. Model development and software design for global intermodal shipping network design. At TRB 92nd Annual Meeting, Washington, D.C., USA, January 13-17.
29. Wang, S., Qu, X., and **Liu, Z.**, 2013. Suburban Bus Route Design, at International Conference of Eastern Asia Society for Transportation Studies (EASTS), Taipei, China, September 9-12.
30. Wang, S., Meng, Q.* and **Liu, Z.**, 2013. Overview of bunker consumption optimization in shipping. At TRB 92nd Annual Meeting, Washington, D.C., USA, January 13-17.
31. Wang, S., **Liu, Z.** and Meng, Q.*, 2013. Systematic network design for liner shipping services. At TRB 92nd Annual Meeting, Washington, D.C., USA, January 13-17.
32. Sun, L., Meng, Q.* and **Liu, Z.**, 2013. Transit Assignment Model Incorporating Dwell Time. At TRB 92nd Annual Meeting, Washington, D.C., USA, January 13-17.
33. Shiwakoti, N.*, **Liu, Z.** and Hopkins, T., 2013. An overview on multimodal emergency evacuation in an urban network, Australasian Transport Research Forum 2013, 2 - 4 October, Brisbane, Australia.
34. Wang T.*, Zheng P. and **Liu Z.**, 2012. Model and Algorithm for a Liner Ship Fleet Planning Problem with Uncertain Container Shipment Demand. At 6th International Conference on Management of Innovation and Technology, Bali, Indonesia, June, 11-13.

35. Wang T. and **Liu Z.***, 2012. Sustainable Transport System: Improve Mode Share of Public Transport by Congestion Pricing. At 6th International Conference on Management of Innovation and Technology, Bali, Indonesia, June, 11-13.
36. Wang, S., Meng, Q.* and **Liu, Z.**, 2012. Analysis of containership speed optimization algorithms. At 17th HKSTS International Conference, Hong Kong, China, December 15-17.
37. **Liu, Z.** and Meng, Q., 2012. Parallel Computing Method for Intermodal Shipping Network Design. At 4th International Conference on Transportation and Logistics, Busan, Korea, August 23-25.
38. **Liu, Z.** and Meng, Q., 2011. Toll Adjustment for Cordon-Based Congestion Pricing Scheme Using Traffic Counts. At 16th HKSTS International Conference, Hong Kong, China, December 17-20.
39. **Liu, Z.** and Meng, Q., 2011. Nonlinear Congestion Pricing: Model Development and Distributed Algorithm Design. At AIT-ITB-NUS-KU symposium, Bangkok, Thailand, November, 17-18.
40. **Liu, Z.** and Meng, Q., 2010. Probit-based Stochastic User Equilibrium Problem: Is It Computationally Acceptable? At 15th HKSTS International Conference, Hong Kong, China, December 11-14.
41. **Liu, Z.** and Meng, Q., 2010. A Reformulation of Truck and Trailer Routing Problem. At 3rd International Conference on Transportation and Logistics, Fukuoka, Japan, September 6-8.
42. Meng, Q. and **Liu, Z.**, 2010. Trial-and-Error Method for Cordon-Based Congestion Pricing Scheme with Probit-Based Stochastic User Equilibrium Constraints. At 12th World Conference on Transport Research, Lisbon, Portugal, July, 11-15.

RESEARCH PROJECT

Liner Shipping Service Network Design: Model Formulation, Algorithm Development and Applications 2010/11–2012/09

- NOL Fellowship Programme of Singapore; S\$231,066; Collaborator
- Qiang Meng, Zhuo Sun, Shuaian Wang, **Zhiyuan Liu**
- Grant number: R-302-000-014-720 and R-702-000-007-720

Optimal Toll Setting for Distance-based Road Pricing, 2013/01-2013/12

- Faculty of Engineering Seed Funding Scheme, Monash University; AU\$5,000; PI
- Grant number: 50163563 - CIVRG1034; 2428169

Sustainable park-and-ride network design, 2014/01-2014/12

- Faculty of Engineering Seed Funding Scheme, Monash University; AU\$5,000; PI
- Grant number: E04001 2428221

Startup Research Allocation, Department of Civil Engineering, Monash University 2013/04-2015/11

- AU\$60,000, PI
- Grant number: E04801 2431055

Bus Route Design within an Integrated and Multimodal Transit System, 2015/01-2015/12

- Faculty of Engineering Seed Funding Scheme, Monash University; AU\$20,000; PI
- Grant number: E04001 2428282

Robust optimization and simulation of sustainable biofuel supply chain under multiple disruptions, 2014/01-2017/12

- National Natural Science Foundation of China, Surface Project; CNY550,000; Participant
- Yong Zhang, Xiangtai Bao, **Zhiyuan Liu**, Zhuqin Lou

Traffic impact analysis and timing operation decision of urban road multi-construction work zones, 2015/01-2017/12

- National Natural Science Foundation of China, Youth Project; CNY250,000; Participant
- Yadan Yan, Dongwei Wang, **Zhiyuan Liu**

INVITED TALKS

1. 2010/09 at **Kyoto University**, Japan. Topic: Speed-based Toll Design for Congestion Pricing (travel and accommodation fully covered).
2. 2011/11 at **Griffith University**, Australia. Topic: Distance-based Toll Design for Cordon-based Congestion Pricing (travel and accommodation fully covered).
3. 2011/12 at **National University of Singapore**. The Fifth Workshop on Transport Logistics. Topic: Toll Setting for Distance-based Congestion Pricing Scheme.
4. 2012/09 Key Note Speech at the 6th Victorian Chinese PhD Students and Young Scholars Research Symposium (VSASF), **Victoria University**, Australia. Topic: Distance-based Congestion Pricing Scheme.
5. 2013/02 invited presentation to **Victorian Department of Transport**. Topic: Global Container Shipping Network Design.
6. 2013/03 at School of Mathematics **Wollongong University**, Australia. Topic: Optimal Toll Design Problem of Urban Congestion Pricing.
7. 2013/03 at School of Transportation **Southeast University**, Nanjing China. Topic: Toll Design Problem of Urban Congestion Pricing (travel and accommodation fully covered).

8. 2013/06 at 2013 **CUBE China User Conference**, Beijing China. Topic: Modeling for the Stochastic User Equilibrium Problem with Link Capacity Constraints.
9. 2013/06 at School of Economics and Management, **Wuhan University**, China. Topic: Optimal Toll Design Problem of Urban Congestion Pricing (travel and accommodation fully covered).
10. 2013/06 at School of Management, **Huazhong University of Science and Technology**, Wuhan, China. Topic: Optimal Toll Design Problem of Urban Congestion Pricing (travel and accommodation fully covered).
11. 2013/07 at School of Transportation, **Central South University**, Changsha, China. Topic: Applications and Developments of Intelligent Transport Systems in Singapore (travel and accommodation fully covered).
12. 2013/08 at College of Civil Engineering and Architecture, **Zhejiang University**, China. Topic: Toll Setting Problem of Cordon-based Congestion Pricing.
13. 2013/09 at School of Transportation, Tongji University, Shanghai, China. Topic: Toll Setting Problem of Cordon-based Congestion Pricing.
14. 2013/09 at School of Naval Architecture, Ocean and Civil Engineering, **Shanghai Jiaotong University**, China. Topic: Toll Setting Problem of Cordon-based Congestion Pricing.
15. 2014/05 at School of Transportation Engineering, **Hefei University of Technology**, China. Topic: Urban Congestion Pricing (travel and accommodation fully covered).
16. 2014/06 at **Tianjin Municipal Engineering Design and Research Institute**, China. Topic: New Development in Urban Transport Planning (travel and accommodation fully covered).
17. 2015/04 **keynote speech** at **International Youth Scholar Forum at University of Electronic Science and Technology of China**, Chengdu. Topic: Urban Intelligent Transport Systems in Singapore (travel and accommodation fully covered).
18. 2015/05 invited speech at **CCDI Group Suzhou**, China. Topic: Recent Research Strengths in Transport Engineering.
19. 2015/05 at School of Industrial Management, **Nanjing University**, China. Topic: Probit-based Stochastic User Equilibrium Models in Traffic Flow Prediction.
20. 2015/06 at **Harbin Institute of Technology**, Harbin, China. Topic: Probit-based Stochastic User Equilibrium Models in Traffic Flow Prediction (travel and accommodation fully covered).
21. 2015/07 at **Monash University Roadshow 2015**, Melbourne Australia. Topic: Four Research Themes on Transport Engineering. (travel and accommodation fully covered).
22. 2015/08 at **Suzhou Planning Design Research Institute Co., Ltd.** 苏州规划设计研究院股份有限公司 Suzhou China. Topic: New Research Themes on Transport Engineering.
23. 2015/08 at **Tsinghua Suzhou Automotive Research Institute** (Wujiang) 清华大学苏州汽车研究院 Suzhou China. Topic: New Research Themes on Transport Engineering.
24. 2015/11 Invited Speech at the **10th China Intelligent Transport System Conference**, Wuxi, China. Topic: Probit-based Stochastic User Equilibrium Models in Traffic Flow Prediction (travel and accommodation fully covered).
25. 2015/11 Invited Speech at the **2015 Seoul Metropolitan Fora**. The University of Seoul, Korea. Topic: The next generation of urban congestion pricing schemes. (travel and accommodation fully covered).
26. 2015/12 Invited Speech at the 交通信息与控制学科首届青年学者论坛. Tongji University, Shanghai, China. Topic: Optimal Setting of an Intersection with Hook Turn Scheme (travel and accommodation fully covered).
27. 2016/03 Invited Speech at the Southeast University Waterloo University Joint Workshop. Southeast University, Nanjing, China. Topic: The next generation of urban congestion pricing schemes.
28. 2016/04 Invited Speech at Wuxi Traffic Management Research Institute of the Ministry of Public Security, Wuxi, China. Topic: Some research topics on transportation engineering.
29. 2016/04 Invited Speech at 2016 年中国城市交通规划年会. Shenzhen, China. Topic: Optimal Toll Design of Urban Congestion Pricing.
30. 2016/04 Invited Speech at Shanghai Jiaotong University, Shanghai, China. Topic: The next generation of urban congestion pricing schemes (travel and accommodation fully covered).
31. 2016/06 Invited Speech at Transportation Research Congress, Beijing, China. Topic: The next generation of urban congestion pricing schemes.
32. 2016/06 Invited Speech at 大数据与交通出行需求管理创新论坛, Dalian, China. Topic: Big data for the urban congestion pricing scheme. (travel and accommodation fully covered)
33. 2016/12 Invited Speech at 江苏科技论坛 (青年科学家年会) --城市规划与城市交通分论坛, Nanjing, China. Topic: Transportation Network Analysis and Design.

34. 2017/01 Invited Speech at the board meeting of ADB 20: Effects of Information and Communication Technologies on Travel Choices Committee, Transportation Research Board Annual Meeting, Washington DC, USA. Topic: Analysis and Forecasting of the Day-to-day Travel Demand Variations for Large-scale Transportation Networks: A Deep Learning Approach.
35. 2017/03 Invited Speech at International Workshop on Dynamic Risk Management of Transport Network, Tokyo Institute of Technology, Japan. Topic: Willingness to Board: A Novel Concept for Modelling Queuing Up Passengers (travel and accommodation fully covered)
36. 2017/03 Invited Speech at Wuhan University, Wuhan China. Topic: Willingness to Board: A Novel Concept for Modelling Queuing Up Passengers (travel and accommodation fully covered)
37. 2017/04 Keynote Speech at 陆家嘴青年科学家峰会, 第五届上交会, Shanghai, China. Topic: Smart Transportation Management and Big Data Analysis. 智慧交通管理与交通大数据应用。
38. 2017/06 Invited Speech at 14 届服务系统与服务管理国际会议(ICSSSM'17), 东北财经大学, Dalian, China. Topic: Willingness to Board: A Novel Concept for Modelling Queuing Up Passengers
39. 2017/07 Keynote Speech at The First International Workshop on Multimodal Transportation, Dalian Maritime University, Dalian, China. Topic: Willingness to Board: A Novel Concept for Modelling Queuing Up Passengers (travel and accommodation fully covered)
40. 2017/07 Invited Speech at CICTP 2017, Tongji University, Shanghai, China. Topic: Analysis of Transport Network Flow With Multi-Source Big Data (travel and accommodation fully covered)
41. 2017/09 Invited Speech at 2017 中国智慧交通管理产业联盟年会, 无锡. Topic: Analysis of Transport Network Flow with Multi-Source Big Data (travel and accommodation fully covered)
42. 2017/09 Invited Speech at “交通领域青年科学家” 高端论坛暨 “智能交通” 圆桌会议, 武汉楚天粤海国际酒店. Topic: Analysis of Transport Network Flow with Multi-Source Big Data (travel and accommodation fully covered)
43. 2017/10 Invited Speech at Symposium on Advanced Urban Traffic Operation and Control, Tongji University, Shanghai, China. Topic: Analysis of Transport Network Flow with Multi-Source Big Data (travel and accommodation fully covered)
44. 2017/10 Invited Speech at 4th China-Korea Joint Seminar on Sustainable Transportation Systems (CKJSSTS-IV), Tongji University, Shanghai, China. Topic: Analysis of Transport Network Flow with Multi-Source Big Data (travel and accommodation fully covered)
45. 2017/12 Invited Speech at 12th Symposium of Young Scholars in Transport and Logistics Areas, South China University of Technology. 第十二届全国交通运输领域青年学术会议, 华南理工大学. Topic: Optimization and Modelling for urban multi-modal transit system (travel and accommodation fully covered).
46. 2017/12 Invited Speech at School of Economics and Management, Beihang University. Topic: Optimization and Modelling for urban multi-modal transit system.
47. 2017/12 Invited Speech at School of Automobile and Transportation Engineering, Hefei University of Technology. Topic: Optimization and Modelling for urban multi-modal transit system.
48. 2017/12 Invited Speech at Henan University of Technology. Topic: Optimization and Modelling for urban multi-modal transit system (travel and accommodation fully covered).
49. 2017/12 Invited Speech at Hefei University of Technology. Topic: Optimization and Modelling for urban multi-modal transit system.
50. 2017/12 Invited Speech at the School of Mathematics and Statistics, University of Melbourne, Melbourne, Australia (travel and accommodation fully covered). Topic: Optimization models for the planning of transport and transit infrastructure; Willingness to board: A novel concept for modeling queuing up passengers.
51. 2018/1 Invited Speech at the RMIT University, Melbourne Australia. Topic: Analysis of Transport Network Flow with Multi-Source Big Data.
52. 2018/5 Invited Speech at the Nanjing Forestry University, Nanjing. Topic: Analysis of Transport Network Flow with Multi-Source Big Data.
53. 2018/6 Invited Speech at the IWMT 2018, Southeast University, Nanjing. Topic: Practical Taxi Sharing Schemes at Large Transport Terminals
54. 2018/7 Invited Speech at the CICTP 2018, Tsinghua University, Beijing. Topic: Practical Taxi Sharing Schemes at Large Transport Terminals. (travel and accommodation fully covered)
55. 2018/8 Invited Speech at the Monash University, Melbourne Australia. Topic: Analysis of Transport Network Flow with Multi-Source Big Data. (travel and accommodation fully covered)
56. 2018/9 Invited Speech at the 5th China-Korea Joint Seminar on Sustainable Transportation Systems, KAIST, Daejeon, Korea. Topic: Practical Taxi Sharing Schemes at Large Transport Terminals. (travel and accommodation fully covered)

57. 2018/9 Invited Speech at School of Transportation, Wuhan University of Technology, Wuhan, China. Topic: how to write high quality academic papers. (travel and accommodation fully covered)

ACADEMIC SERVICES

Membership

- The American Society of Civil Engineering (ASCE)
- The Institute of Electrical and Electronics Engineers (IEEE)
- The Institution of Engineers Singapore (IES)

Founding member, SIG B3, Intermodal Freight Transport, WCTR

Reviewer of Journals

1. Journal of Advanced Transportation (since 2010)
2. Transportation Research Record (since 2011)
3. Transportmetrica A (since 2011)
4. Transportation Research Part A (since 2011)
5. Journal of Intelligent Transportation Systems (since 2012)
6. Transportation Research Record (since 2012)
7. Netnomics (since 2012)
8. Asian Geographer (since 2012)
9. ASCE Journal of Transportation Engineering (since 2012)
10. Discrete Dynamics in Nature and Society (since 2012)
11. Networks and Spatial Economics (since 2012)
12. IEEE Transactions on ITS (since Jan 2013)
13. Tourism Management (since Jan 2013)
14. Road and Transport Research (since Feb 2013)
15. Engineering Optimization (since Feb 2013)
16. Maritime Policy & Management (since Feb 2013)
17. European Journal of Operational Research (since Sep 2013)
18. Transportmetrica B: Transport Dynamics (since Oct 2013)
19. Computer-Aided Civil and Infrastructure Engineering (since Oct 2013)
20. Transportation Science (since Oct 2013)
21. Transportation Research Part E (since Oct 2013)
22. Journal of Transportation Safety & Security (since Oct 2013)
23. Transportation Research Part C (since Nov 2013)
24. Applied Mathematical Modelling (since Jan 2014)
25. Transportation Research Part D (since Apr 2014)
26. Transportation (since Jun 2014)
27. IET Intelligent Transport Systems (since Aug 2014)
28. Transportation Research Part B (since Feb 2015)
29. Transportation Letters (since Mar 2015)
30. Transport Policy (since July 2015)
31. 上海交通大学学报-Journal of Shanghai Jiaotong University (since Nov 2015)
32. Sustainability (since Dec 2015)
33. Journal of Urban Planning and Development (since Dec 2015)
34. Annals of Operations Research (since Feb 2016)
35. Journal of Traffic and Transportation Engineering (since Jun 2016)
36. PLOS ONE (since Oct 2016)
37. Sensors (Since Dec 2016; IF: 2.033)
38. Journal of Harbin Institute of Technology (since Dec 2016)
39. International Journal of Transportation Science and Technology (since Feb 2017)
40. Computers & Industrial Engineering (since Feb 2017; IF: 2.086)
41. International Journal of Shipping and Transport Logistics (since Mar 2017)
42. 哈尔滨工业大学学报 (since Feb 2017)
43. Habitat International (since Sep 2017; IF: 2.285)
44. IEEE Intelligent Transport Systems Magazine (since Oct 2017; IF:3.654)
45. IEEE Transactions on Cybernetics (since Jul 2018; IF: 8.803)

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| Reviewer of proposals | <ul style="list-style-type: none"> ➤ National Fund for Scientific Research (NFSR) grants of Belgium ➤ United Arab Emirates University, UAE |
| Associated Editor | <ul style="list-style-type: none"> ➤ IET Intelligent Transport Systems (since July 2017) ➤ ASCE Journal of Transportation Engineering (since May 2018) |
| Editorial Board | <ul style="list-style-type: none"> ➤ International Journal of Transportation, SCIE (since April 2012) ➤ Journal of Transport and Land Use (since May 2017) |
| Guest Editor | <ul style="list-style-type: none"> ➤ The 14th ITS Asia Pacific Forum, July 2015 in Nanjing China ➤ Special Issue 'Models and Technologies for Transport System Flow Analysis' for |

| | Journal of Advanced Transportation |
|---------------------------------------|---|
| Scientific Committee | <ul style="list-style-type: none"> ➤ International Symposia of Transport Simulation (ISTS) and the International Workshop on Traffic Data Collection and its Standardization (IWTDCS), 7-8 July 2016, Jeju Island Korea ➤ 2016 Global Conference on Civil and Architectural Engineering (GCCAE 2016) August 12-14, 2016 in Guangzhou, China |
| Organizer and/or Session Chair | <ul style="list-style-type: none"> ➤ Mini-symposium "Risk and Uncertainty Modelling for Transportation and Logistics" in the ASCE-ICVRAM-ISUMA 2014 Conference, July 2014 UK ➤ Transportation Research Congress, China, Beijing, 6-8, June 2016 ➤ The First International Workshop on Multimodal Transportation, Dalian Maritime University, Dalian, China July 2017 |

HONORS AND AWARDS

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| 2018 Outstanding Reviewer IEEE Transactions on Cybernetics | 2019/01 |
| 2018 年度中国智能交通协会科学技术奖一等奖（排名第二） | 2018/10 |
| 2017 年度东南大学“五四青年奖章” | 2018/05 |
| 2017 地球空间信息科学学报-优秀审稿专家 | 2018/01 |
| 2014-2016 Top Article Award – Journal of Traffic and Transportation Engineering (English Edition) | 2017/01 |
| Outstanding Submittal, 2017 TRB Analytics Contest | 2017/01 |
| Transportation Research Part E-Highly Cited Research | 2016/12 |
| 江苏省双创人才（高校创新类） | 2016/11 |
| 阿里巴巴天池大数据竞赛--明星导师奖 | 2016/11 |
| Graduate Certificate of Academic Practice, Monash University | 2015/10 |
| The 1000 Youth Talent Program China | 2015/06 |
| 2014 ASCE Outstanding Reviewer | 2015/04 |
| CUBE Training Certificate | 2013/06 |
| Level 1 Membership, Monash Institute of Graduate Research (MIGR) | 2013/03 |
| Training Certificate of Teaching Assistant, National University of Singapore | 2008/05 |
| Research Scholarship, National University of Singapore | 2007/08– 2011/08 |
| Outstanding Thesis Award, School of Transportation, Southeast University, China | 2007/06 |
| Excellent Graduate Award, School of Transportation, Southeast University, China | 2007/06 |
| The Only Student Representative of Graduate Students (Student of the Year), Southeast University, China | 2007/06 |
| The Only Student Representative of Graduate Students, School of Transportation, Southeast University | 2007/06 |
| Outstanding Award in the Student Research Training Program, School of Transportation, Southeast University | 2006/10 |
| Transport New Star Scholarship, Southeast University, China | 2006/05 |
| Outstanding Student Leader Award (twice), School of Transportation, Southeast University, China | 2004 & 2005 |

TEACHING EXPERIENCE

National University of Singapore (from 08/2007 to 09/2012)

- Transportation Planning, Teaching Assistant
- Operations & Management of Infrastructure Systems, Teaching Assistant
- Intermodal Transportation Operations, Teaching Assistant

Monash University (from 09/2012 to 09/2015)

- CIV5406 Modeling Transportation Systems, Coordinator and Lecturer
- CIV5319 Quantitative Methods for Transportation Systems Analysis, Coordinator and Lecturer
- CIV5320 Case Studies in Transportation Systems, Coordinator and Lecturer

Southeast University (from 02/2016)

- Transportation Data Analysis and Modelling

TEACHING INTERESTS

Undergraduate Level

Transportation Engineering
Transportation Planning
Traffic Flow Theory
Transport Policies
Quantitative Methods for Transport Data Analysis
Intelligent Transport Systems

Graduate Level

Operations Research
Applied Probability and Statistics

STUDENT SUPERVISION

Undergraduate Final Year Project (before 2014, not recorded after 2014)

- 2013/02 – 05; Main Supervisor; Alisa Redsell and Sam Hughes; Topic: Studies on Public Acceptance of Urban Congestion Pricing
- 2013/02 – 05; Co-supervisor; Trent Hopkins; Topic: Network based strategy for emergency evacuations

Summer Research Students

- 2013/12 – 2014/03; Solo supervisor; Terry Chan; Topic: Understanding the Park-and-ride system in Melbourne

PHD Students (in Monash University)

1. Shahi Islam, 2013/09-2015/10;
 - a) Main Supervisor (70%); Co-supervisor: Majid Sarvi
 - b) Topic: Sustainable Park-and-ride Network Design
 - c) Thesis Due: 23/06/2016
2. Wentao Jing, 2014/02-2015/10
 - a) Main Supervisor (70%); Co-supervisor: Majid Sarvi
 - b) Topic: Network Modelling for Electric Vehicles
3. Yan Yang, 2013/09-2015/01
 - a) Co-supervisor (25%); Main supervisor: Graham Currie
 - b) Topic: Public Transport for International Tourists
4. Arian Dhini, 2013/09-2014/05
 - a) Co-supervisor (25%); Main supervisor: Graham Currie
 - b) Topic: Bus-based Transit Oriented Development
5. Sajjad Shafie, 2014/12-2015/08
 - a) Co-supervisor (20%); Main supervisor: Meead Saberi
 - b) Topic: Dynamic Traffic Assignment
6. Ziyuan Gu, 2015/05-
 - a) Co-supervisor (20%); Main supervisors: Meead Saberi; Majid Sarvi
 - b) Topic: Dynamic Congestion Pricing
7. Xinyuan Chen, 2015/07-
 - a) Main supervisor (75%); Co-supervisor: Inhi Kim
 - b) Topic: Mathematical Modelling of a Transport Network with Park and Ride Scheme
8. Kai Huang, 2017/11-
 - a) Co-supervisor (15%); Main supervisor: Kun An
 - b) Topic: Network planning and operation strategies design for one-way carsharing systems

PHD Students (in Southeast University, as Main supervisor)

9. Di Huang, 2016/03-
 - a) Topic: Optimal Transit Pricing and Multimodal Transit Network Design
10. Aya Selmoune, 2016/08
 - b) Topic: Impacts of Urban Congestion Pricing on Multimodal Transport Systems
11. Qixiu Cheng, 2017/03-
 - c) Topic: Dynamic Congestion Pricing
12. Yang Liu, 2017/07-
 - d) Topic: Transport Big Data Analytics
13. Ruo Jia, 2018/03-
 - e) Topic: Multimodal Transport Data Analysis
14. Qinhe An, 2018/09-
 - f) Topic: Multimodal Transit Network Analysis

Master Students (in Southeast University, as Main supervisor)

1. Qixiu Cheng, 2015/12-2017/03
 - a) Topic: Urban Dynamic Congestion Pricing
2. Yu Gu, 2016/09
 - a) Network Design with Activity-based Modelling
3. Shaowei Hua Liu, 2016/09
 - a) Topic: Urban Dynamic Congestion Pricing
4. Long Cheng, 2016/09
 - a) Topic: Operation Optimization of Public Bicycles
5. Peilin Shen, 2016/09
 - a) Topic: Travel Time Prediction of Customized Bus
6. Yan Xia, 2016/09
 - a) Topic: Big Data Analysis of Electric Vehicles
7. Qi Zhang, 2016/09
 - a) Topic: Electric Vehicles and Travel Behavior
8. Anish Khadka, 2016/09
 - a) Topic: Transit Big Data Analysis

9. Jun Yu, 2017/09
 - a) Topic: Transit Big Data Analysis
 10. Shilin Yuan, 2017/09
 - a) Topic: Multimodal Sharing Mobility
 11. Lumeng Wang, 2017/09
 - a) Topic: Urban Public Transport System Management
 12. Yujia Song, 2017/09
 - a) Topic: Customized Buses
 13. Li Yang, 2017/09
 - a) Topic: Stochastic User Equilibrium
 14. Zhongqi Yuan, 2017/09
 - a) Topic: Transport Network Equilibrium Flows
 15. Yinfei Xi, 2017/09
 - a) Topic: Big Data Analysis
 16. Zhekang Li, 2017/09
 - a) Topic: Transport Big Data Analysis
- Visiting PhD Student Supervision (at Monash University)
- Xiaolin Gong, 2013/12-2014/12
 - Jingxu Chen, 2014/11-2015/11

POSTDOC AND VISITING SCHOLAR SUPERVISION

Visiting Scholar Supervision

- Yiming Bie, Lecturer, 2014/01-2015/01, Monash University

Postdoctoral Fellows

- Jingxu Chen, PhD, 2017/06-, Southeast University