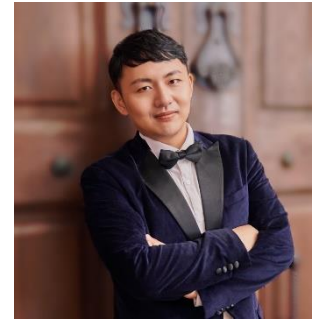


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CITATION REPORT

| | H-index | Sum of Times Cited |
|----------------|--|---------------------------|
| Web of Science | 15 | 725 |
| Scopus | 15 | 857 |
| Google Scholar | 16 | 1177 |
| Highlight | Top author in "Transit Assignment" on Web of Science | |

Accessed 22th Apr 2022

JOURNAL HIGHLIGHTS

| Journal | Impact Factor | Rank | No. |
|---|----------------------|---------------------------------------|------------|
| Computer-Aided Civil and Infrastructure Engineering | 11.775 | 1/136 in Civil Engineering | 2 |
| Transportation Research Part C | 8.089 | 3/37 in Transportation Science | 6 |
| Transportation Research Part E | 6.875 | 3/136 in Civil Engineering, | 2 |
| Transportation Research Part B | 5.596 | 25/377 in Economics | 5 |
| European Journal of Operational Research | 5.334 | 15/ 84 in Operations Research | 1 |
| Transportation Science | 4.117 | 24/84 Operations Research | 1 |

EDUCATION

Ph.D., The University of Hong Kong, Hong Kong, 2014

M.Sc. in Transportation System Management, National University of Singapore, Singapore, 2008-2009

Bachelor in Management, Shandong University, China, 2003-2007

Double Major in Economics, Shandong University, China, 2005-2007

WORKING EXPERIENCE

Associate Professor (tenured), Danmarks Tekniske Universitet (DTU), May 2021 – present

Assistant Professor, Danmarks Tekniske Universitet (DTU), Apr 2017 – Apr 2021

Network Infrastructure Analyst, Environmental Change Institute (ECI), Oxford University, Oct 2016 – March 2017

Senior Research Associate, Lancaster University Management School (LUMS), Oct 2015 – Oct 2016

Postdoctoral Fellow, The University of Hong Kong, Sep 2014 – Sep 2015

Research Assistant, The University of Hong Kong, Feb 2014 – Aug 2014

RESEARCH PROJECTS

Co-PI

- NEMESYS - NExt generation Mobility and Emission management SYStems: dynamic pricing and tradable credits
 - Joint Ph.D. scholarship between DTU and NTU, 1 million DKK, 2019 - 2022
- Autonomous Bus Demand Modelling and Optimization from Big Data
 - Joint Ph.D. scholarship between DTU and NTU, 1 million DKK, 2017 - 2020

Participant:

- LINC: Transforming Urban Planning Providing Autonomous Collective mobility
 - €3 million funded by EU Urban Innovative Actions (UIA) 2018 - 2021
- Integrated Public Transport Optimization and Planning (IPTOP)
 - 18.5 million DKK funded by the Innovation Fund Denmark 2017 - 2020

3. Mathematical Models and Algorithms for Allocating Scarce Airport Resources (OR-MASTER) 2015 - 2019
 - £2 million (16.5 million DKK) project funded by Engineering and Physical Sciences Research Council (EPSRC)
4. Multi-scale Infrastructure Systems Analytics (MISTRAL),
 - £5 million funded by Engineering and Physical Sciences Research Council (EPSRC) 2016

HONORS AND AWARDS

| | |
|--|------|
| 1 st Runner up of HKSTS Outstanding Student Paper Award | 2014 |
| Nominated for Li Ka Shing Prize, Awards for Outstanding Research Postgraduate Student | 2015 |
| Best paper in 9 th International Conference on Railway Operations Modelling and Analysis. | 2021 |

ACADEMIC ACHIEVEMENTS

Refereed Journal Papers

(Corresponding author is underlined. “+” indicates the PhD or visiting student under my supervision)

1. **Jiang, Y.**, Nielsen, O.A., 2022. Multimodal Traffic Assignment: A Short Bibliometric Review. Accepted in *Multimodal Transportation*.
2. **Jiang, Y.**, Rasmussen, T.K., Nielsen, O.A., 2022. Integrated Optimisation of Transit Networks with both Schedule- and Frequency-based Services Considering Passengers Route Choice Responses According to a Bounded Stochastic User Equilibrium. Accepted in *Transportation Science*.
3. Lee, K. +, **Jiang, Y.**, Ceder, A., Dauwels, J., Su, R., Nielsen, O.A., 2022. Path-Oriented Synchronized Scheduling Using Time-Dependent Data. *Transportation Research Part C* 136, 103505.
4. Zhong, S.P., **Jiang, Y.**, Nielsen, O.A., 2022. Multi-Objective Road Pricing Considering Land Use Effects: A Bi-Level Model and a-Conditional Lexicographic. *European Journal of Operational Research* 298(2), 496-509.
5. Ye, J. +, **Jiang, Y.**, Chen, J., Liu, Z.Y., Guo, R.Y., 2021. Joint Optimization of Transfer Location and Capacity for a Capacitated Multimodal Transport Network with Elastic Demand: Bilevel Modeling and Paradoxes. *Transportation research Part E* 156, 102540.
6. **Jiang, Y.**, 2021. Reliability-based Equitable Transit Frequency Design. *Transportmetrica A*, 1-31.
7. **Jiang, Y.**, Ceder, A., 2021. Incorporating Personalization and Bounded Rationality into Stochastic Transit Assignment Model. *Transportation Research Part C* 127, 103127
8. **Jiang, Y.**, Zografos, K.G., 2021. A decision-making framework for incorporating fairness in allocating slots at capacity-constrained airports. *Transportation Research Part C* 126, 103039.
9. Peled, I., Lee, K. +, **Jiang, Y.**, Dauwels, J., Pereira, F.C., 2021. On the Quality Requirements of Demand Prediction for Dynamic Public Transport. *Communications in Transportation Research* 1, 100008.
10. Zhong, S.P., Cheng, R. +, **Jiang, Y.**, Nielsen, O.A., Larson, A., 2020. Risk-averse optimization of disaster relief facility location and vehicle routing under stochastic demand. *Transportation Research Part E* 141, 102015.
11. Ceder, A., **Jiang, Y.**, 2020. Route Guidance Ranking Procedures with Human Perception Consideration for Personalized Public Transport Service. *Transportation Research Part C* 118, 102667.
12. **Jiang, Y.**, Wang, Y., Chow, A.H.F., Szeto, W.Y., Nagurney, A., 2020. Probabilistic assessment of transport network vulnerability with equilibrium flows *International Journal of Sustainable Transportation*, 1-12.
13. Tang, Y.L. +, **Jiang, Y.**, Hai, Y., Nielsen, O.A., 2020. Modeling and optimizing a fare incentive strategy to manage queuing and crowding in mass transit system. *Transportation Research Part B* 138, 247-267.

14. Zhong, S.P., Cheng, R., Li, X.F., Wang, Z., **Jiang, Y.**, 2020. Identifying the combined effect of shared autonomous vehicles and congestion pricing on regional job accessibility. *The Journal of Transportation and Land Use* 13, 273-297.
15. Ceder, A., **Jiang, Y.**, 2019. Personalized public transport mobility service: a journey ranking approach for route guidance. *Transportation Research Procedia* 38, 935-955.
16. **Zografos, K.G., Jiang, Y.**, 2019. A Bi-objective efficiency-fairness model for scheduling slots at congested airports. *Transportation Research Part C* 102, 336-350.
17. **Jiang, Y., Szeto, W.Y.**, 2016. Reliability-based stochastic transit assignment: formulations and capacity paradox. *Transportation Research Part B* 93, 181-206.
18. **Jiang, Y., Szeto, W.Y.**, 2016. Multi-class dynamic traffic assignment with physical queues: intersection-movement-based formulation and paradox. *Transportmetrica A*, 12(10), 878-908.
19. **Jiang, Y., Szeto, W.Y.**, 2015. Time-dependent transport network design that considers health cost. *Transportmetrica A*, 11(1), 74-101.
20. **Szeto, W.Y., Jiang, Y., Wang, D.Z.W., Sumalee, A.**, 2015. A sustainable road network design problem with land use transportation interaction over time. *Networks and Spatial Economics* 15(3), 791-822.
21. Hamdouch, Y., **Szeto, W.Y., Jiang, Y.**, 2014. A new schedule-based transit assignment model with travel strategies and supply uncertainties. *Transportation Research Part B* 67, 35-67.
22. **Szeto, W.Y., Jiang, Y.**, 2014. Transit route and frequency design: Bi-level modeling and hybrid artificial bee colony algorithm approach. *Transportation Research Part B* 67, 235-263.
23. **Szeto, W.Y., Jiang, Y.**, 2014. Transit assignment: approach-based formulation, extragradient method, and paradox. *Transportation Research Part B* 62, 51-76.
24. **Jiang, Y., Szeto, W.Y., Ng, T.M., Ho, S.C.**, 2013. The reliability-based stochastic transit assignment problem with elastic demand. *Journal of the Eastern Asia Society for Transportation Studies* 10, 831-850.
25. **Jiang, Y., Szeto, W.Y., Ng, T.M.**, 2013. Transit network Design: a Hybrid enhanced artificial bee colony approach and a case study. *International Journal of Transportation Science and Technology* 2 (3), 243-260.
26. **Szeto, W.Y., Jiang, Y., Wong, K.I., Solayappan, M.** 2013. Reliability-based stochastic transit assignment with capacity constraints: formulation and solution method. *Transportation Research Part C* 35, 286-304.
27. Yan, Y., **Liu, Z., Meng, Q., Jiang, Y.**, 2013. Robust optimization model of bus transit network design with stochastic travel time. *Journal of Transportation Engineering* 139 (6), 625-634.
28. **Szeto, W.Y., Jiang, Y.**, 2012. Hybrid artificial bee colony algorithm for transit network design. *Transportation Research Record* 2284, 47-56.
29. **Szeto, W.Y., Jiang, Y., Sumalee, A.**, 2011. A cell-based model for multi-class doubly stochastic dynamic traffic assignment. *Computer-Aided Civil and Infrastructure Engineering* 26 (8), 595-611.
30. **Szeto, W.Y., Solayappan, M., Jiang, Y.**, 2011. Reliability-based transit assignment for congested stochastic transit networks. *Computer-Aided Civil and Infrastructure Engineering* 26 (4), 311-326.

Selected Conference Proceedings/Abstracts/Presentations

1. Dai, Y.J., Liu, T., **Jiang, Y.** Optimal Routing Design of App-based Demand Responsive Connector for Many to One Travel Demand. Extended Abstract submitted to mobil. TUM 2022 – 12th International Scientific Conference on Mobility and Transport, April 5th-7th, 2022, Singapore

2. Ye, J., **Jiang, Y.**, Chen, J., Liu, Z.Y., Guo, R.Y. Joint Optimization Capacitated Multimodal Transport Network. The 22nd COTA International Conference of Transportation Professionals (CICTP2022), Changsha, China – July 8-11, 2022.
3. Wang, B., **Jiang, Y.**, Szeto, W.Y. Mining Frequent Sequences in Automatic Vehicle Identification Data: a data mining approach to identify critical paths. The 22nd COTA International Conference of Transportation Professionals (CICTP2022), Changsha, China – July 8-11, 2022.
4. Ning, J., Peng, Q.Y., Zhu, Y.Q., **Jiang, Y.**, Nielsen, O.A. 2022. A Bi-objective Optimization Model for the Last Train Timetabling Problem. 9th International Conference on Railway Operations Modelling and Analysis. Nov 3-7, Beijing.
5. Chen, S.Y., Liu, R.M., Seshadri, R., Azevedo, C.L., **Jiang, Y.**, Ben-Akiva, M., 2022. Market Design For Tradable Mobility Credits. *Transportation Research Board 101st Annual Meeting*, January 9–13, 2022, Washington, D.C., USA, accepted.
6. Hua, M.Z., Chen, X.W., **Jiang, Y.**, Chen, J.X., 2022. Minimizing Fleet Size and Improving Bike Allocation of Bike Sharing. *Transportation Research Board 101st Annual Meeting*, January 9–13, 2022, Washington, D.C., USA, accepted.
7. Liu, R.M., Chen, S.Y., **Jiang, Y.**, Seshadri, R., Azevedo, C.L., 2022. Managing network congestion with a tradable credit scheme: a trip-based MFD approach. *Transportation Research Board 101st Annual Meeting*, January 9–13, 2022, Washington, D.C., USA Accepted.
8. Cheng, R., **Jiang, Y.**, Zhong, S.P., Wang, Z., Fu, Y.J., Nielsen, O.A., 2022. A Hyper-heuristic Approach to the Strategic Planning of Bike Sharing System. 5th Annual Meeting of the Cycling Research Board. Copenhagen, Denmark. October 13-15.
9. Liu, R., **Jiang, Y.**, Azevedo, C.L., 2021. Bayesian Optimization of Area-based Road Pricing. In 2021 7th International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS) (pp. 1-6). IEEE.
10. **Jiang, Y.**, Ceder, A., 2021. Incorporating Personalization and Bounded Rationality into Stochastic Transit Assignment Model. Accepted for the **PODIUM** presentation for the 24th International Symposium on Transportation and Traffic Theory (ISTTT24), 24-26 July 2022, Beijing, China (postponed from 2021 to 2022 due to Covid).
11. Zhong, S.P., **Jiang, Y.**, Wang, Z., Nielsen, O.A., 2021. A Bilevel Multi-Objective Road Pricing Model Considering Land-Use Effects. *25th International Conference of Hong Kong Society for Transportation Studies*, 9-10, December, Hong Kong (accepted)
12. **Jiang, Y.**, 2021 Integrated Optimisation of Transit Network, 12th International Workshop on Computational Transportation Science, 28-29 July, Harbin, China.
13. Liu, R.M., **Jiang, Y.**, Azevedo, C.L., 2021. Bayesian Optimization of Area-based Road Pricing, *7th International IEEE Conference on Models and Technologies for Intelligent Transportation Systems*. 16 – 17 June 2021, online.
14. Peled, I., Lee, K., **Jiang, Y.**, Dauwels, J., Pereira, F.C., 2019. Preserving Uncertainty in Demand Prediction for Autonomous Mobility Services. *Proceedings of the IEEE Intelligent Transportation Systems Conference (ITSC)*, 2019.
15. Liu, T., **Jiang, Y.**, Ceder, A., Gasson, R., Cheyne, L. 2019. Smartphone based Public Transport Guidance: An Investigation of Potential Benefits. *Proceedings of the IEEE Intelligent Transportation Systems Conference (ITSC)*, 2019.

16. Ceder, A., **Jiang, Y.** 2019. Personalized public transport mobility service: a journey ranking approach for route guidance. *23th International Symposium on Transportation and Traffic Theory (ISTTT23)*, 23-26 July, Lausanne, Switzerland.
17. **Jiang, Y.**, 2018. Equitable Transit Network Design Under Uncertainty. In *Conference on Advanced Systems in Public Transport*. 23-25 July 2018, Brisbane, Australia.
18. **Jiang, Y.**, Ceder, A. 2018. Assessing the Impact of Future Personalised Public Transport. In *Conference on Advanced Systems in Public Transport*. 23-25 July 2018, Brisbane, Australia.
19. Zhong, S.P., Cheng, R., **Jiang, Y.** 2018. α -Reliable Mean-Excess Regret Model for Emergency Location Routing Problem Under Demand Uncertainty. *International Conference of Transportation and Space-time Economics*, 12-14 Oct, Beijing.
20. Zhong, S.P., Cheng, R., **Jiang, Y.**, 2019. A bi-objective model to stochastic emergency location routing problem. *19th COTA International Conference of Transportation Professionals*, July 6–8, 2019, Nanjing, China,
21. **Jiang, Y.**, Lee, K., 2018. Scheduling Synchronization with Time-Dependent Data. *The 7th International Symposium on Dynamic Traffic Assignment*, 6 – 8, June 2018, Hong Kong.
22. **Jiang, Y.**, M. Eltved, O. A. Nielsen, T. K. Rasmussen, R. D. Frederiksen. 2017. Integrated optimisation for public transport system with joint schedule- and frequency-based services. *22nd International Conference of Hong Kong Society for Transportation Studies*, December 9 - 11, 2017, Hong Kong.
23. Zografos, K.G., **Jiang, Y.**, 2016. Modeling and solving the airport slot scheduling problem with efficiency, fairness, and accessibility considerations. *Triennial Symposium on Transportation Analysis (TRISTAN IX)*, 12-17 June 2016, ARUBA.
24. **Jiang, Y.**, Szeto, W.Y., 2016. A multi-class approach-proportion-based dynamic user optimal route choice problem. *Triennial Symposium on Transportation Analysis (TRISTAN IX)*, 12-17 June 2016, ARUBA.
25. **Jiang, Y.**, Szeto, W.Y., 2016. Multi-class dynamic traffic assignment: Approach-proportion-based formulation and car-truck interaction paradox, *The 6th International Symposium on Dynamic Traffic Assignment*, June 28–30, 2016, Sydney, Australia
26. **Jiang, Y.**, Szeto, W.Y., 2016. A multi-class approach-proportion-based dynamic user optimal route choice problem. In *Tristan Symposium 2016*, 13-17 June, Aruba.
27. **Jiang, Y.**, Szeto, W.Y., 2015. Reliability-based transit assignment: formulations and a capacity paradox. In *International Symposium on Transportation Network Reliability*, 2-3 August 2015, Nara, Japan
28. **Jiang, Y.**, Szeto, W.Y., 2015. Multi-class dynamic traffic assignment: Intersection-movement-based formulation and paradox. *20th International Conference of Hong Kong Society for Transportation Studies*, December 12–14, 2015, Hong Kong.
29. **Jiang, Y.**, Szeto, W.Y., 2015. An approach-based formulation for reliability-based stochastic transit assignment. In *Conference on Advanced Systems in Public Transport*, 19-23 July Rotterdam, Netherlands.
30. **Jiang, Y.**, Szeto, W.Y., Wong, S.C., 2014. Reliability-based transit network design. In *International Conference of Hong Kong Society for Transportation Studies*, 13-15 December 2014, Hong Kong.
31. Szeto, W.Y., **Jiang, Y.**, Sun, S.J., Wong, K.I., 2014. A reliability-based stochastic transit assignment model with capacity constraints. *Transportation Research Board 93rd Annual Meeting*, January 12–16, 2014, Washington, D.C., USA

32. **Jiang, Y.**, Szeto, W.Y., Ng, T.M., and Ho, S.C., 2013. The reliability-based stochastic transit assignment problem with elastic demand. 10th Eastern Asia Society of Transportation Studies (EASTS) Conference 2013, September 9–12, 2013, Taiwan.
33. Szeto, W.Y., **Jiang, Y.**, Wong, S.C., 2012. Bilevel transit network design: Hybrid artificial bee colony algorithm. 17th *International Conference of Hong Kong Society for Transportation Studies*, December 15–17, 2012, Hong Kong
34. Szeto, W.Y., **Jiang, Y.**, Wong, S.C., Wang, D.Z.W., 2012. Risk-averse stochastic user equilibrium transit assignment with elastic demand. 5th *International Symposium on Transportation Network Reliability*, December 18–19, 2012, Hong Kong
35. Szeto, W.Y., **Jiang, Y.**, Wong, S.C., 2012. Bilevel transit network design problem: Artificial bee colony approach. *INFORMS International Conference*, June 24–27, 2012, Beijing, China
36. Szeto, W.Y., **Jiang, Y.**, 2011. A simultaneous bus route design and frequency setting problem: a hybrid artificial bee colony algorithm approach. In *International Conference of Hong Kong Society for Transportation Studies*, 17-20 December 2011, Hong Kong.
37. **Jiang, Y.**, Szeto, W.Y., Wong, S.C., 2010. Risk-Aversive Stochastic Transit. In *International Conference of Hong Kong Society for Transportation Studies*. 11-14 December 2010, Hong Kong.
38. Szeto, W.Y. **Jiang, Y.**, 2010. A bilevel transit network design problem with transfer penalty. *Proceedings of the 4th Nordic Optimization Symposium*, September 30-October 2, 2010, Aarhus, Denmark
39. Szeto, W. Y., Solayappan, M., **Jiang, Y.**, Wong, K.I., 2010. Reliability-based stochastic user equilibrium transit assignment. In *Proceedings of the 4th International Symposium on Transportation Network Reliability*, 22-23 July, Minnesota, USA.
40. Szeto, W.Y., **Jiang, Y.**, Solayappan, M., 2009. Time-dependent road network design frameworks with land use consideration: The issue of sustainability. *Proceedings of the Eastern Asia Society for Transportation Studies*, Surabaya, Indonesia, October 19–22, 2009, vol. 7, 34–49.

ACADEMIC SERVICES

| | |
|-------------------------|---|
| Editor | Special Issue: Methods and Technologies for Next-Generation Public Transport Planning and Operations (MTNPT) in <i>Journal of Advanced Transportation</i> (selected to be included in 2021 Annual Issues Series) |
| Reviewer | <i>European Journal of Operational Research</i> , <i>Transportation Research Part B, C, D, E</i> , <i>Transportmetrica A, B</i> , <i>Journal of Intelligent Transportation Systems</i> , <i>Computers & Industrial Engineering</i> , <i>Public Transport</i> , <i>IEEE ITS Transactions</i> , <i>IET Intelligent Transport Systems</i> , <i>Computer-Aided Civil and Infrastructure Engineering</i> , <i>Networks and Spatial Economics</i> , <i>Journal of Rail Transport Planning & Management</i> , <i>Journal of Air Transport Management</i> |
| Conference Chair | Section Chair in <i>Transit Scheduling 22th HKSTS</i> conference Section Chair in <i>the 7th International Symposium on Dynamic Traffic Assignment</i> Section Chair in <i>CASPT 2018</i> |

Invited Talks

1. Integrated Planning and Operation Public Transport System. *Beijing University of Technology*. 19.08.2021, China
2. Future Public Transport Planning, *Dalian University of Technology*, 6-01-2020, China
3. Advanced Public Transportation Planning, *Southeast University*, 17-09-2019, China.
4. Integrated Optimisation for Public Transport System, *Beijing Jiaotong University*, 12-09-2019, China.
5. Planning for Dynamic Autonomous Bus Operation, *Transport Summit*, 31-05-2018, Denmark.
6. Integrated Public Transport Optimisation, *Transport Summit*, 30-05-2017, Denmark.
7. Towards Reliability-Based Public Transport Planning, *ITS University of Leeds*, 21-02-2017, UK.