

Stanford

Kaidi Yang

Postdoctoral Research Fellow, Aeronautics and Astronautics

Bio

HONORS AND AWARDS

- Best Paper Award, OMEGA - The International Journal of Management Science (2019)
- Early Postdoc Mobility Fellowship, Swiss National Science Foundation (2019-2020)

PROFESSIONAL EDUCATION

- Bachelor of Science, Tsinghua University (2011)
- Bachelor of Engineering, Tsinghua University (2011)
- Master of Science, Tsinghua University (2014)
- Doctor of Philosophy, Eidgenössische Technische Hochschule (ETH Zurich) (2019)

LINKS

- Google sites: <https://sites.google.com/site/kdyang1990>

Publications

PUBLICATIONS

- **On the design of an optimal flexible bus dispatching system with modular bus units: Using the three-dimensional macroscopic fundamental diagram** *TRANSPORTATION RESEARCH PART B-METHODOLOGICAL*
Dakic, I., Yang, K., Menendez, M., Chow, J. J.
2021; 148: 38-59
- **Joint Optimization of Intersection Control and Trajectory Planning Accounting for Pedestrians in a Connected and Automated Vehicle Environment** *SUSTAINABILITY*
Yin, B., Menendez, M., Yang, K.
2021; 13 (3)
- **Implementing transit signal priority in a connected vehicle environment with and without bus stops** *TRANSPORTMETRICA B-TRANSPORT DYNAMICS*
Yang, K., Menendez, M., Guler, S.
2019; 7 (1): 423-45
- **Heterogeneity aware urban traffic control in a connected vehicle environment: A joint framework for congestion pricing and perimeter control** *Transportation Research Part C: Emerging Technologies*
Yang, K., Menendez, M., Zheng, N.
2019; 105: 439-455
- **Providing public transport priority in the perimeter of urban networks: A bimodal strategy** *Transportation Research Part C: Emerging Technologies*
He, H., Yang, K., Liang, H., Menendez, M., Guler, S.
2019; 107: 171-192
- **An auction-based approach for prebooked urban logistics facilities** *Omega: The International Journal of Management Science*
Yang, K., Roca-Riu, M., Menendez, M.
2019

- **Queue Estimation in a Connected Vehicle Environment: A Convex Approach** *IEEE Transactions on Intelligent Transportation Systems*
Yang, K., Menendez, M.
2019; 20 (7): 2480 - 2496

- **Evaluating the effects of automated vehicle technology on the capacity of freeway weaving sections** *TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES*
Tilg, G., Yang, K., Menendez, M.
2018; 96: 3–21

- **Multi-scale perimeter control approach in a connected-vehicle environment** *Transportation Research Part C: Emerging Technologies*
Yang, K., Zheng, N., Menendez, M.
2018; 94: 32-49

- **Continuous and Discrete-Time Optimal Controls for an Isolated Signalized Intersection** *JOURNAL OF SENSORS*
Tan, J., Shi, X., Li, Z., Yang, K., Xie, N., Yu, H., Wang, L., Li, Z.
2017

- **Isolated intersection control for various levels of vehicle technology: Conventional, connected, and automated vehicles** *TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES*
Yang, K., Guler, S., Menendez, M.
2016; 72: 109–29

- **The optimality condition of the multiple-cycle smoothed curve signal timing model** *TRANSPORTATION RESEARCH PART C-EMERGING TECHNOLOGIES*
Li, L., Yang, K., Li, Z., Zhang, Z.
2013; 27: 46–57