JUNYAN SU

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EDUCATION

Ph.D. in Data Science, City University of Hong Kong 2020-present
B.E. in Computer Science and Technology, ShanghaiTech University 2015-2019

RESEARCH INTERESTS

My research interests are intelligent transportation systems, from the perspective of control and optimization. I also have broad interests in computing methods for energy systems.

SELECTED PUBLICATIONS

1. Junyan Su, Qiulin Lin, Minghua Chen, and Haibo Zeng. Minimizing carbon footprint for timely e-truck transportation: Hardness and approximation algorithm. In *Proceedings of the 62th IEEE Conference on Decision and Control (CDC)*, 2023. (to appear).

2. Junyan Su, Qiulin Lin, and Minghua Chen. Follow the sun and go with the wind: Carbon footprint optimized timely e-truck transportation. In *Proceedings of the Fourteenth ACM International Conference on Future Energy Systems (ACM e-Energy 2023)*, 2023. **Best Paper Award**.

3. Qiulin Lin, Yanfang Mo, Junyan Su, and Minghua Chen. Competitive online optimization with multiple inventories: A divide-and-conquer approach. *Proceedings of the ACM SIGMETRICS'22*, 2022.

4. Yuning Jiang, Junyan Su, Yuanming Shi, and Boris Houska. Distributed optimization for massive connectivity. *IEEE Wireless Communications Letters*, 9(9):1412–1416, sep 2020.

5. Ling Gao, Junyan Su, Jiadi Cui, Xiangchen Zeng, Xin Peng, and Laurent Kneip. Efficient globally-optimal correspondence-less visual odometry for planar ground vehicles. *Proceedings - IEEE International Conference on Robotics and Automation (ICRA)*, pages 2696–2702, 2020.

6. Junyan Su, Yuning Jiang, Altuğ Bitlislioğlu, Colin N. Jones, and Boris Houska. Distributed multi-building coordination for demand response. *IFAC-PapersOnLine*, 53(2):17113–17118, 2020.

AWARD AND RECOGITION

CDC Student Travel Grant & Workshop Support, 2023.
Research Tuition Scholarship, City University of Hong Kong, 2023.
Outstanding Academic Performance Award, City University of Hong Kong, 2023.
ACM e-Energy Best Paper Award, 2023.
Outstanding Graduate, ShanghaiTech University, 2019.
Outstanding Student, ShanghaiTech University, 2016,2017,2018.

SOFTWARE & SKILLS

Main developer of the E2Pilot, a navigation platform for energy-efficient long-haul timely truck transportation.
Main contributor of the simulation for ALL the publication I co-authored.
Programming languages: working knowledge of Julia, Python, C/C++, MATLAB.