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

AWARD AND RECOGITION

ACM e-Energy Best Paper Award, 2023

PUBLICATION

Selected Publication:

1. 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**.

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

Other Publication:

1. 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.

2. Junyan Su, Minghua Chen, and Haibo Zeng. E2pilot: An energy-efficient navigation system for long-haul timely truck transportation. In *Proceedings of the Thirteenth ACM International Conference on Future Energy Systems (ACM e-Energy 2022)*, New York, NY, USA, 2022. (demo paper).

3. Junyan Su, Minghua Chen, and Haibo Zeng. Energy efficient timely transportation: A comparative study of internal combustion trucks and electric trucks. In *Proceedings of the 8th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation (ACM BuildSys 2021)*, New York, NY, USA, 2021. (poster paper).

4. 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.

5. 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.

6. Junyan Su, Yanlin Zha, Kai Wang, Mario E Villanueva, R. Paulen, and Radoslav Paulen. Interval superposition arithmetic for guaranteed parameter estimation. *IFAC-PapersOnLine*, 52(1):574–579, 2019.

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: Julia, Python, C/C++, MATLAB