

苏隽岩

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教育经历

- 香港城市大学, 数据科学博士 2020-2025
- 上海科技大学, 计算机科学与技术学士 2015-2019

项目与技术栈

- 主导开发了E2Pilot, 一款专为重卡长途运输设计的节能导航系统。系统拥有网页端和移动端。用户只需输入起点、目的地及取送货时间窗, 系统将规划最经济的路线和车速, 并通过用户当前位置提供实时车速指引, 以保障准时送达的前提下实现燃油成本节约。
- 主导开发了ParExMPC。ParExMPC 是一款模型预测控制 (MPC) 设计工具箱。提供基于 MATLAB 的用户界面和定制的 C 代码求解器。给定一个非线性系统模型和一个优化目标, ParExMPC 可以生成一个近似最优的 MPC 控制器, 并生成 C 代码, 以方便用户部署在小型嵌入式系统中。
- 参与了共同署名的所有论文的代码实现以及仿真工作。
- 编程语言: 熟练使用 Julia、Python、C/C++、MATLAB。

奖项与荣誉

- 美团无人机大赛第二名, 2023
- ACM e-Energy 最佳论文奖, 2023
- CDC 学生旅行资助与研讨会支持, 2023
- HK Tech 300 & HKTSP 种子基金获得者, 2022
- 香港城市大学杰出学术表现奖, 2023
- 上海科技大学优秀毕业生, 2019

期刊论文

- Qiulin Lin, Junyan Su, and Minghua Chen. Optimal algorithms for online age-of-information optimization in energy harvesting systems. *IEEE Transactions on Networking*, 2025.
- Yuning Jiang, Kristína Fedorová, Junyan Su, Juraj Oravec, Boris Houska, and Colin N. Jones. Fast and Lightweight: A real-time parallelizable MPC for embedded systems. *European Journal of Control*, page 101217, 2025.
- Junyan Su, Runzhi Zhou, Qingyu Liu, Wenjie Xu, Minghua Chen, and Haibo Zeng. Minimizing Emission for Timely Heavy-Duty Truck Transportation. *IEEE Transactions on Intelligent Transportation Systems*, 2024.
- Yuning Jiang, Junyan Su, Yuanming Shi, and Boris Houska. Distributed Optimization for Massive Connectivity. *IEEE Wireless Communications Letters*, 9(9):1412–1416, 2020.

会议论文

- Qiulin Lin, Junyan Su, and Minhua Chen. Competitive Online Age-of-Information Optimization for Energy Harvesting Systems. In *Proceedings of IEEE INFOCOM*, 2024.
- Junyan Su, Qiulin Lin, Minghua Chen, and Haibo Zeng. Minimizing Carbon Footprint for Timely E-Truck Transportation: Hardness and Approximation Algorithm. In *Proceedings of IEEE Conference on Decision and Control (CDC)*, 2023.
- 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 ACM e-Energy*, 2023. **Best Paper Award**.
- Qiulin Lin, Yanfang Mo, Junyan Su, and Minghua Chen. Competitive Online Optimization with Multiple Inventories: A Divide-and-Conquer Approach. In *Proceedings of ACM SIGMETRICS*, 2022.

5. Junyan Su, Yuning Jiang, Altuğ Bitlislioglu, Colin N. Jones, and Boris Houska. Distributed Multi-Building Coordination for Demand Response. In *Proceedings of 21st IFAC World Congress*, 2020.
6. 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 of IEEE International Conference on Robotics and Automation (ICRA)*, 2020.

专利

- M. Chen., J. Su, and Q. Lin, "Carbon Footprint Optimized Timely E-Truck Transportation", 8 Feb 2024, (Filed) U.S. Patent Application No. 18/436,350.