Junyan Su

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https://sujunyan.github.io/

EDUCATION

Nov.2020-present **City University of Hong Kong** **Hong Kong, China**
Ph.D candidate in Data Science

Sept.2015-Jun.2019 **ShanghaiTech University** **Shanghai, China**
B.E. in Computer Science and Technology

Aug.2018-May 2019 **University of California at Berkeley** **CA, USA**
Concurrent Enrollment Student at College of Engineering

RESEARCH INTERESTS

Optimization
Intelligent transportation

PUBLICATIONS

J. Su, Y. Jiang, A. Bitlislioglu, C.N. Jones, B. Houska.
Distributed Multi-building Coordination for Demand Response
In Proceedings of the 21st IFAC World Congress
Berlin, Germany, July, 2020.

Y. Jiang, **J. Su**, Y. Shi, B. Houska
Distributed Optimization for Massive Connectivity
IEEE Wireless Communication Letters, 2020.

L. Gao, **J. Su**, J. Cui, X. Zeng, X. Peng, and L. Kneip
Efficient Globally-Optimal Correspondence-Less
Visual Odometry for Planar Ground Vehicles
International Conference on Robotics and Automation (ICRA), IEEE, 2020.

J. Su, Y. Zha, K. Wang, M.E. Villanueva, R. Paulen, B. Houska.
Interval Superposition Arithmetic for Guaranteed Parameter Estimation,
In Proceedings of the 12th IFAC Symposium on Dynamics and Control
of Process Systems, Florianopolis, Brazil, April, 2019.

HONORS & AWARDS

2016,2017 Scholarship for Academic Excellence, ShanghaiTech University

Oct.13 2017 Most Innovative Robot in Rescue Robot Competition,
IEEE International Symposium on Safety, Security and Rescue Robotics

2019 Outstanding Graduate of Shanghai University

EXPERIENCE

Jun.2018-Aug.2018 **Carnegie Mellon University** **Pittsburgh, PA, USA**
Robotics Institute Summer Scholars Program
Advisors: Prof. Howie Choset & Lu Li
To design one logic-circuit-level layout with Verilog to fetch data from multiple sensors and reduce CPU intervention time. The report can be found in pp.129-132 of [pdf]

Sept.2017-May 2018 **Robomasters 2018** **Nanjing,China**
Advisor: Prof. Andre Rosendo
RoboMaster is one international robotics competition. The competition is like multiplayer online battle arena (MOBA) video game. Each team will build their own robots that serve different functionality.

COURSE PROJECTS

Lego Pick & Place Assembler [website].

Turtlebot with Robotic Arm Delivery [website].

A Don't-Touch-Me Robot [website]

Completed and passed all the points in the [Pintos project]

Optimal 800MHz 6-Bit "Absolute-value Detector"
In this project, I and my teammate implemented a CMOS level circuit "Absolute-value Detector" with Cadence Virtuoso. We achieved the minimum delay compared with other teams in the course.

TECHNICAL SKILLS

Programming Languages: C/C++, Python
Scientific Tools: MATLAB, Mathematica, Julia, ROS
Hardware Design:pSoC, STM32xx,Verilog,Cadence Virtuoso
Office Applications: LaTeX

TEACHING

Feb.2017-Jun.2017 Teaching Assistant of *Introduction to Information Science and Technology*

Sept.2017-Jan.2018 Teaching Assistant of *Electric Circuits*