Curriculum Vitae

Kang Tang (He/Him/His) Website: https://kangtang0.github.io/
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EDUCATION

Southern University of Science and Technology Shenzhen, China
M. Eng., Intelligent Manufacturing and Robotics. GPA: 3.64/4.00 (4/51, 10%) Jun. 2024 (Expected)

- Core courses: Intelligent Data Analysis (A-), Matrix Analysis (A-), Fundamental of Information Technology (A+), Theory and Practice of Innovative Design (A), Continuum Mechanics (A+), Optimization in Engineering (B).

Southern University of Science and Technology Shenzhen, China
B. Eng., Mechanical Engineering. Jun. 2019

PROJECT & RESEARCH EXPERIENCE

Southern University of Science and Technology Shenzhen, China
Advisor: Prof. Yongsheng Ma Sep. 2022 – May 2023
Research project. Event camera-based simultaneous localization and mapping (SLAM) and development of LiDAR

Southern University of Science and Technology Shenzhen, China
Advisor: Prof. He Kong & Prof. Sheng Xu Feb. 2023 – Jun. 2024 (Expected)
M. Eng Thesis: Optimal sensor placement in source localization and tracking

University at Buffalo, SUNY & University of North Carolina at Charlotte Buffalo, NY & Charlotte, NC
Advisor: Prof. Hongfei Xue May 2023 – Jun. 2024 (Expected)
Intern. mmWave-based human sensing systems using deep learning tools

PUBLICATIONS

- A first author paper submitted to IEEE Radar Conference (2024). “Optimal Sensor Placement Using Combinations of Hybrid Measurements for Source Localization” (under review).
- A first author paper submitted to IEEE Signal Processing Letters. “Optimal Sensor Placement Using Decentralized TDOA System in Target Localization” (under review).
- A first author paper to be submitted to IEEE Transactions on Vehicular Technology. “Frame Theory for Optimal Sensor Placement Using 3D Hybrid RSS-TOA-AOA Measurements in Source Localization”.
- Chinese patent. A Type of Novel LiDAR (Chinese patent No. CN219609222U).

RESEARCH INTERESTS

- Mobile Robotics, Source Localization, State Estimation
- Human Sensing, Intelligent Wireless Sensing Systems, Machine Learning
- Optimization Theory, Allocation and Decision.

SKILLS

Programming: Python, Pytorch, Matlab, C++, Linux
Mathematics: Matrix theory, Probability theory, Optimization Theory
Engineering: 3D Printing, 3D Digital Model Construction, Mechanics Simulation

AWARDS

- Second prize. China Undergraduate Mathematical Contest in Modeling (2017,2018)
- Third prize. Formula Students Electrical China (2017, 2018)
- Third prize. Capstone in the College of Engineering (2019)