Curriculum Vitae

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

1088 Xueyuan Avenue, Shenzhen 518055, China   Email: 12132291@mail.sustech.edu.cn

EDUCATION

Southern University of Science and Technology   Shenzhen, China

M. Eng., Intelligent Manufacturing and Robotics. GPA: 3.64/4.00 (4/51, 10%)   Expected Jun 2024

- 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. He Kong & Prof. Sheng Xu   Feb 2023 - Jun 2024 (Expected)

M. Eng Thesis: Optimal Sensor Placement in Source Localization and Tracking

Southern University of Science and Technology & ESPE Corp.   Shenzhen, China

Advisor: Prof. Yongsheng Ma   Jan 2022 - Jun 2023

Team leader. Research and development of LiDAR and its applications

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 Pose Sensing

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

- Signal Processing, Source Localization, State Estimation
- Human Sensing, Intelligent Wireless Sensing Systems, Machine Learning

SKILLS

Programming: Python, Pytorch, Matlab, C++, Linux

Mathematics: Matrix theory, Probability theory

Engineering: 3D Printing, 3D Digital Model Construction, Mechanics Simulation

AWARDS

- Second prize. China Undergraduate Mathematical Contest in Modeling
- Third prize. Formula Students Electrical China
- Third prize. Capstone in the College of Engineering