



Huatao Xu

MASTER STUDENT

+86 15221276575 | xuhuatao@sjtu.edu.cn | dapowan.github.io | dapowan

Education

Shanghai Jiao Tong University (SJTU)

Master of Software Engineering, GPA: 3.51/4.0, Advised by Prof. Dong Wang

Shanghai, China

Sept. 2017 - Mar. 2020

Nanjing University (NJU)

Bachelor of Software Engineering, GPA: 4.05/5.0

Nanjing, China

Sept. 2013 - Jun. 2017

Publication

FaHo: Deep Learning Enhanced Holographic Localization for RFID tags

Huatao Xu, Dong Wang, Run Zhao, Qian Zhang

ACM SenSys 2019

Design a new hologram called joint hologram and propose a new hologram-based position estimation method for accurate RFID tag localization.

AdaRF: Adaptive RFID-based Indoor Localization Using Deep Learning Enhanced Holography

Huatao Xu, Dong Wang, Run Zhao, Qian Zhang

ACM IMWUT (UbiComp) 2019

Propose an RFID-based localization system that creates adaptive localization models for stable environments using synthetic aperture technique and deep learning algorithm.

PEC: Synthetic Aperture RFID Localization with Aperture Position Error Compensation

Run Zhao, Dong Wang, Qian Zhang, Haonan Chen, Huatao Xu, Huatao Xu

IEEE SECON 2019

Present an accurate synthetic aperture RFID localization system considering aperture position error compensation.

PRMS: Phase and RSSI based Localization System for Tagged Objects on Multilayer with a Single Antenna

Huatao Xu, Run Zhao, Qian Zhang, Dong Wang

ACM MSWiM 2018

Design a system that estimates the spatial positions of RFID tags using both phase and RSSI profiles provided by a single antenna.

Projects

RFID-based Deep Learning Enhanced Holographic Localization System

2019

- A Python project that analyzes RFID signals and estimates positions of RFID tags based on Tensorflow.

Student Work Traceability Display System

2018

- A platform for primary school students to share videos of the processes of making handmade products.
- Responsible for the C# program that displays and records video data captured by HIKVISION cameras.

RFID Sensing Platform

2017

- An extensible C# program that collects and displays low level RFID signals profiles reported from ImpinJ reader using LLRP protocol.
- Responsible for implementation of localization algorithms and program controlling RFID readers and linear guide simultaneously.

Systematic Evaluation System

2017

- A website where users can search literature with key words, which is constructed based on Python Django framework.

Experience

Nanjing Yikemi (Start-up company)

Nanjing, China

Software Engineer Intern

Jan. 2017 - Jun. 2017

- Develop websites for Online Course Platform and Student Data Sharing Platform, which are both entrepreneurial projects.

Honor & Award

2020 **Shanghai Outstanding Graduate Student, SJTU**

2019 **China National Scholarship, SJTU**

Highest national wide scholarship for postgraduate students in China

2017-2019 **First-class Scholarship, SJTU**

2017 **Nanjing University Inspirational Scholarship, NJU**

Skills

Languages	Python, Java, JavaScript, Latex, Matlab, C#
Frameworks	Tensorflow, Django, J2EE, Vue.js
Tests	TOEFL(iBT) - 97 (R-27 L-25 S-21 W-25) GRE - 324 (V-154 Q-170) + 3 (AW)
others	Good communication skills and strong work responsibility