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Education

Nanyang Technological Univseristy (NTU)

Ph.D. of Computer Science, GPA: 4.38/5.0, Advised by Prof. Mo Li

Shanghai Jiao Tong University (SJTU)

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

Nanjing University (NJU)

Bachelor of Software Engineering, GPA: 4.05/5.0

Singapore, Singapore

Jan. 2021 - Present

Shanghai, China

Sept. 2017 - Mar. 2020

Nanjing, China Sept. 2013 - Jun. 2017

Publications

Facilitating Radar-Based Gesture Recognition With Self-Supervised Learning

Zhiyao Sheng, **Huatao Xu**, Qian Zhang, Dong Wang

IEEE SECON 2022

A novel representation learning framework for radar sensing applications with self-supervised learning techniques.

LIMU-BERT: Unleashing the Potential of Unlabeled Data for IMU Sensing Applications

Huatao Xu, Pengfei Zhou, Rui Tan, Mo Li, Guobin Shen

ACM SenSys 2021 (Best Paper Runner-up), GetMobile Research Highlight 2022

A BERT-Like self-supervised representation learning model for IMU sensing applications, which can extract generalizable features from unlabeled data.

FaHo: Deep Learning Enhanced Holographic Localization for RFID tags

Huatao Xu, Dong Wang, Run Zhao, Qian Zhang

ACM SenSys 2019

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

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

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

Huatao Xu, Run Zhao, Qian Zhang, Dong Wang

ACM MSWiM 2018

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

Projects _____

Self-supervised Learning Framework for IMU Sensing Applications

2021-Present

• A mobile sensing project that trains sensing models for IMU applications with high transferability and generalizability.

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 implemention of localization algorithms and program controlling RFID readers and linear guide simultaneously.

Experience _____

Alibaba (Eleme)

Shanghai, China

Algorithm Engineer Intern

Apr. 2020 - Dec. 2020

• Design effective models to sense couriers' states with smartphones, including location and activity type.

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

2022 Research Highlight, GetMobile

2021 Best Paper Runner-up, ACM SenSys'21

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)

IELTS - 7.0 (L-7.5 R-8.5 W-6.0 S-6.0)

GRE - 324 (V-154 Q-170) + 3 (AW)

others Good communication skills