

YIFENG CAO

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EDUCATION

Georgia Institute of Technology

PH.D. CANDIDATE IN COMPUTER SCIENCE

Sept. 2019 -

- Supervised by Doc. Ashutosh Dhekne

Shanghai Jiao Tong University

M.E. IN COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

Sept. 2017 - Aug. 2019

- Supervised by Doc. Linghe Kong in Advanced Network Laboratory

Shanghai Jiao Tong University

B.E. IN COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

Sept. 2013 - Jun. 2017

- Research Assistant in Advanced Network Laboratory from 2016

RESEARCH INTEREST

My current research interests mainly cover motion tracking and localization technology using wireless sensing on embedded systems. I am open for the research work in any other interesting problems in the mobile and ubiquitous computing. Besides, I also have special interest in the state-of-the-art technology in the networking, especially in the area of video streaming.

PUBLICATIONS

Mobicom 2020 Poster

Homecoming: A Wireless Homing Device for UAVs

Yifeng Cao, Ashutosh Dhekne

ICNP 2020

6Fit-A-Part: A Protocol for Physical Distancing on a Custom Wearable Device

Yifeng Cao, Ashutosh Dhekne, Mostafa Ammar

ICNP 2019

Forward the Collision Decomposition in ZigBee

Yifeng Cao*, Zhe Wang*, Linghe Kong, Guihai Chen, Jiadi Yu, Shaojie Tang, Yingying Chen

TON

Improving ZigBee throughput via multi-rate transmission

Linghe Kong, Yifeng Cao, Liang He, Guihai Chen, Min-You Wu, Tian He

ICPADS 2018

Stop Unauthorized Access to Your Smart Devices

Yutong Liu, Linghe Kong, Yifeng Cao, Vahan Sarafian, Long Cheng and Guihai Chen

ICNP 2017

Mrs. Z: Improving ZigBee throughput via multi-rate transmission

Yifeng Cao, Linghe Kong, Liang He, Guihai Chen, Min-You Wu, Tian He

ICPADS 2016

EHR: Routing Protocol for Energy Harvesting Wireless Sensor Networks

Yifeng Cao, Xiao-Yang Liu, Linghe Kong, Min-you Wu, Muhammad Khurram Khan

WORKING EXPERIENCE

Tencent

May, 2019 - July, 2019

INTERNSHIP, SOFTWARE ENGINEERING

- Game server development, including game logic, TCP/IP communication, redis database, etc.
- Zookeeper study.
- Programming automatic test scripts.

PROJECT

ZigBee's Multi-rate Transmission System

Spring, 2017

- The system is developed to enable multi-rate transmission and rate adaptation in ZigBee. It is built on USRP with GNURadio.

Real-time Video Abstraction

Spring, 2016

- A cooperative course design in Curricula Technology Innovation. We developed it to transfer the real-scenario football match into a 2D effective picture. Our project got A+ in the final evaluation.

3D Chinese-Checker

Spring, 2016

- A cooperative course design in Software Engineering. The Chinese-checker is composed of three main parts: user-friendly UI, rule-based AI, and basic functions, where I took over the design of AI. Our project got A+ in the final evaluation.

TEACHING EXPERIENCE

SJTU CS356 Operating System Experiment, TA

Spring, 2018

SJTU CS154 C++ Programming, TA

Fall, 2018

HONOR & AWARD

Class-B Scholarship, SEIEE, SJTU

2014

Class-A Scholarship for Graduates, SEIEE, SJTU

2017-2018

National Scholarship for Graduates, SEIEE, SJTU

2018

SKILL

Language

Native: Chinese

Proficient: English (TOEFL: 105, GRE: 324)

CS Skills

Proficient: Python, C++, C, Latex, MATLAB

Experience: Java, C#, shell/bash, HTML/CSS, Lua

Hardware

Experience: USRP N210