Wei Sun

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Research Interests

Human-centered wireless sensing for health, privacy and safety

Education

2016–Present **Ph.D., Computer Science and Engineering**, *The Ohio State University*, Columbus, OH.
Advisor: Prof. Kannan Srinivasan

2013–2016 **M.S., Computer Science and Engineering**, *Shanghai Jiao Tong University*.
Advisor: Prof. Yanmin Zhu

2009–2013 **B.S., Computer Science and Technology**, *Anhui Science and Technology University*.

Conference Publications

IMWUT 2022 On the Feasibility of Securing Vehicle-Pavement Interaction
Wei Sun and Kannan Srinivasan

Mobisys 2021 Healthy Diapering with Passive RFIDs for Diaper Wetness Sensing and Urine pH Identification
Wei Sun and Kannan Srinivasan

IMWUT 2021 Embracing Collisions to Increase Fidelity of Sensing Systems with COTS Tags
Xu, Jiaqi, **Wei Sun** and Kannan Srinivasan

RFID 2020 Allergie: Relative Vehicular Localization with Commodity RFID System
Wei Sun and Kannan Srinivasan

ICDM 2017 Multimodal Content Analysis for Effective Advertisements on YouTube
Vedula, Nikhita, **Wei Sun**, Hyunhwan Lee, Harsh Gupta, Mitsunori Ogihara, Joseph Johnson, Gang Ren and Srinivasan Parthasarathy

ICPP 2015 Crowdsourcing Sensing Workloads of Heterogeneous Tasks: A Distributed Fairness-Aware Approach
Wei Sun, Yanmin Zhu, Lionel M. Ni and Bo Li

Workshop and Poster Publications

MobiCom 2020 — Embracing collisions: enabling parallel channel estimation with COTS passive backscatter tags
Jiaqi Xu, **Wei Sun**, Arjun Bakshi and Kannan Srinivasan

IWQoS 2015 — An efficient distributed algorithm for spectrum allocation in multi-hop cognitive radio networks
Wei Sun and Yanmin Zhu

Patent

2020 — Athreya, Kannan Srinivasan, **Wei Sun**, Bo Chen and Vivek Sriram Yenamandra Guruvenkata. "MIMO architecture for multi-user power line communication." U.S. Patent 10,879,959, issued December 29, 2020

Grant Proposal Writing

2020 — CNS Core: Small: Towards MIMO Power Line Communication for Scalability, Coverage and High Data Rate

Achievements and Awards

2021 — ACM Mobisys Student Conference Grant

2021 — IEEE RFID Special Recognition

2020 — In Recognition and Appreciation of 2020 Commercialization Achievement from Ohio State University

2013-2016 — Graduate Scholarship Shanghai Jiao Tong University

2013 — Excellent Undergraduate Award Anhui Science and Technology University

2010 — Notional Encouragement Scholarship Department of Education Anhui Province China

Service

Publication co-chair — IEEE RFID 2022

2021-present — IEEE CRFID Technical Committee on Motion Capture and Localization

PC Member — ACM IMC 2019, ACM COMPASS 2021,IEEE RFID 2022

Poster Chair — IEEE RFID 2021

Workshop Organizer — IEEE WiSEE 2021

Journal Reviewer — IEEE Journal of Radio Frequency Identification

Teaching Experience

2017, 2020 — Teaching Assistant, Survey of Artificial Intelligence, Ohio State University

2015 Teaching Assistant, Computer Architecture, Shanghai Jiao Tong University

Professional Experience

Summer 2016 Software Engineering Internship, Accelops Inc., Shanghai, China
Processing the logs from data center network to improve user experience

Talks

2021 Human-Centered Wireless Sensing for Human Health and Safety, Webinar at University of California San Diego

2021 Human-Centered Wireless Sensing for Human Health and Safety, Webinar at Dartmouth College

2021 Embracing Collisions to Increase Fidelity of Sensing Systems with COTS Tags, ACM Ubicomp

2021 Healthy Diapering with Passive RFIDs for Diaper Wetness Sensingand Urine pH Identification, ACM Mobisys

2020 Allergie: Relative Vehicular Localization with Commodity RFIDSystem IEEE RFID

2015 Crowdsourcing Sensing Workloads of Het-erogeneous Tasks: A Distributed Fairness-Aware Approach, IEEE ICPP

Students Mentored

Summer 2021 Ishaan Chansarkar, Cornell University

Autumn 2019 Sivakumar Kunapuli, Dublin Scioto High School