

FEI WANG

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geekfeiw.github.io

EDUCATION

Ph.D., Xi'an Jiaotong University, Xi'an China School of Computer Science and Technology	2016 - Present
M.E., Xi'an Jiaotong University, Xi'an China Department of Computer Science and Technology	2014 - 2016
B.E., Xi'an Jiaotong University, Xi'an China Department of Computer Science and Technology	2009 - 2013

EXPERIENCE

The Robotics Institute, Carnegie Mellon University, Pittsburgh USA <i>Visiting scholar</i>	2017 - Present
Institute of Cyberspace Research, Zhejiang University, Hangzhou China <i>Research assistant (remote)</i>	2018 - Present

RESEARCH INTEREST

Sensing: Building sensory systems and designing advanced ML/DL algorithms for person pose estimation, action recognition, indoor location, detection and segmentation, etc.

Security: Deploying pervasive sensors in Internet-of-Thing environment, e.g., camera, IMU, and Wi-Fi, to capture user behavioral biometrics, e.g., body shape, gait, and body-fat rate, to do person identification, authentication, and re-identification.

SKILLS

Research project management

Five-year expertise in machine learning and deep learning

Fluent in Mandarin/English reading, writing, and speaking

Python/Pytorch, MATLAB, C/C++, etc.

PUBLICATION

2019

[C.5] Person-in-WiFi: Fine-grained Person Perception using WiFi

Fei Wang, Sanping Zhou, Stanislav Panev, Jinsong Han, and Dong Huang
IEEE/CVF ICCV 2019

[C.4] Discriminative Feature Learning with Consistent Attention Regularization for Person Re-identification
Sanping Zhou, **Fei Wang**, Zeyi Huang, and Jinjun Wang
IEEE/CVF ICCV 2019

[C.3] WiPIN: Operation-free Person Identification using WiFi Signals

Fei Wang, Jinsong Han, Feng Lin, and Kui Ren
IEEE GLOBECOM 2019 (Oral)

[J.2] Continuous User Authentication by Contactless Wireless Sensing

Fei Wang, Zhenjiang Li, and Jinsong Han

IEEE Internet of Things Journal, 2019 (IF:9.515, JCR:Q1)

[J.1] Joint Activity Recognition and Indoor Localization with WiFi Fingerprints

Fei Wang, Jianwei Feng, Yinliang Zhao, Xiaobin Zhang, Shiyuan Zhang, and Jinsong Han

IEEE Access, 2019 (IF:4.098, JCR:Q2)

2017

[C.2] Abstract: Security in Uplink MU-MIMO Networks

Fei Wang, Wei Xi, Jinsong Han, Kun Zhao, and Yuan Gao

ACM/IEEE IoTDI, 2017 (Poster)

[C.1] QUICK: Pursuing Qualified CSI for MU-MIMO Networks

Fei Wang, Wei Xi, Jinsong Han, Xin Li, and Chen Qian

ACM HotMobile, 2017 (Poster)

Tech Report

[T.6] Can WiFi Estimate Person Pose?

Fei Wang, Stanislav Panev, Ziyi Dai, Jinsong Han, and Dong Huang

arxiv, code, 2019

[T.5] Temporal Unet: Sample Level Human Action Recognition using WiFi

Fei Wang, Yunpeng Song, Jimuyang Zhang, Jinsong Han, and Dong Huang

arxiv, code, 2019

[T.4] SE²Net: Siamese Edge-Enhancement Network for Salient Object Detection

Sanping Zhou, Jinjun Wang, **Fei Wang**, and Dong Huang

arxiv, 2019

[T.3] Motor Fault Diagnosis Under Non-stationary Conditions Using Cascade Convolutional Network

Ruonan Liu, Boyuan Yang, Xuefeng Chen, and **Fei Wang**

code, 2019

[T.2] Multi-scale Kernel based Residual Convolutional Neural Network for Motor Fault Diagnosis

Ruonan Liu, Boyuan Yang, and **Fei Wang**

code, 2018

[T.1] CSI-Net: Unified Human Body Characterization and Pose Recognition

Fei Wang, Jinsong Han, Shiyuan Zhang, Xu He, and Dong Huang

arxiv, code, 2018

PATENT

[P.2] System and methods for WiFi-based fine-grained multi-person pose estimation and segmentation

Fei Wang, Jinsong Han, and Dong Huang

CN patent (In progress)

[P.1] System and methods for WiFi-based single person pose estimation

Han Ding, Ziyi Dai, Xu He, **Fei Wang**, Jinsong Han, and Dong Huang

CN patent, 201910457667.7