

# FEI WANG

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## EDUCATION

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

## EXPERIENCE

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

## RESEARCH INTEREST

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**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, re-identification, etc.

**Machine Learning:** Making knowledge general such as meta-learning, knowledge distillation, GANs, AutoML or NAS, etc.

## SKILLS

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**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

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**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] SE<sup>2</sup>Net: 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

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[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