

Huanle ZHANG

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EDUCATION

- Current* Doctorate Degree in Computer and Information Sciences
SEP 2016 **University of California, Davis, CA**
Supervisor: Prof. Prasant MOHAPATRA
- JUNE 2014 Master Degree in Communication and Information System
SEP 2011 **University of Electronic Science and Technology of China**
(3 years) Thesis: “Research on Heterogeneous Femtocell Networks”
Supervisor: Prof. Jian LIU
- JUNE 2011 Bachelor Degree in Communication Engineering
SEP 2007 **Hangzhou Dianzi University, China**
(4 years) Thesis: “Research on Pitch Detection of Voice Signals based on SHR Algorithm”
Supervisor: Prof. Na YING

WORK AND INTERSHIP EXPERIENCE

- AUG 2018 Summer Intern
JUNE 2018 **Bell Labs, USA**
(10 weeks) Supervisor: Dr. Mostafa UDDIN, Dr. Fang HAO, Dr. Sarit MUKHERJEE
Conducted research on IoT device onboarding.
- JUNE 2018 Spring Intern
MAR 2018 **Microsoft Research Asia, China**
(12 weeks) Supervisor: Dr. Yunxin LIU
Conducted research on Machine Learning, including Distributed Models, Model Compression and Image Super-Resolution.
- SEP 2017 Summer Intern
JULY 2017 **Simula Research Laboratory, Norway**
(2 months) Supervisor: Dr. Ahmed ELMOKASHFI
Developed wireless transmission solutions for AV/VR systems that require very high throughput and low latency. Became familiar with Linux kernel programming, multipath TCP and WiFi driver source codes.
- JUNE 2016 Project Officer (Research Assistant)
AUG 2014 **Nanyang Technological University, Singapore**
(2 years) Supervisor: Prof. Mo LI
Conducted research on mobile applications and systems, such as localization, mobile sensing, and data analysis. Became familiar with sensor networks and data dissemination.

RESEARCH INTERESTS

Machine Learning; Mobile Systems & Applications; IoT; AR/VR

PATENT

- US Patent App. 16/247,797 Augmented Onboarding of Internet-of-Things Devices
Fang Hao (25%), Sarit Mukherjee (25%), Mostafa Uddin (25%), **Huanle Zhang (25%)**

AWARDS

- 2019 National Patent Filing Award, Nokia
2019 NSF Student Travel Grant, ACM Workshop on Mobile Computing Systems and Applications (ACM HotMobile)
2015 Best Paper Award, ACM Conference on Embedded Networked Sensor Systems (ACM SenSys)
2013 IEEE Student Travel Grant, IEEE Global Communication Conference (IEEE Globecom)

PUBLICATIONS

- TMC (Minor Rev.) High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation
Pengfei Hu, Parth H. Pathak, **Huanle Zhang**, Zhicheng Yang and Prasant Mohapatra
- arXiv Wireless Access to Ultimate Virtual Reality 360-Degree Video At Home
Huanle Zhang, Ahmed Elmokashf, Zhicheng Yang and Prasant Mohapatra
- HotMobile'19 AIDE: Augmented Onboarding of IoT Devices at Ease
Huanle Zhang, Mostafa Uddin, Fang Hao, Sarit Mukherjee and Prasant Mohapatra
- ICPADS'18 WiFi and Multiple Interfaces: Adequate for Virtual Reality?
Huanle Zhang, Ahmed Elmokashf and Prasant Mohapatra
- TMC'18 StrLight: An Imperceptible Visible Light Communication System with String Lights
Huanle Zhang, Wan Du, Mo Li, Kaishun Wu and Prasant Mohapatra
- TMC'18 An Acoustic-based Encounter Profiling System
Huanle Zhang, Wan Du, Pengfei Zhou, Mo Li and Prasant Mohapatra
- TON'17 Pando: Fountain-Enabled Fast Data Dissemination with Constructive Interference
Wan Du, Jansen Christian Liando, **Huanle Zhang** and Mo Li
- MobiCom'16 DopEnc: Acoustic-based Encounter Profiling Using Smartphones
Huanle Zhang, Wan Du, Pengfei Zhou, Mo Li and Prasant Mohapatra
- SenSys'15 When Pipelines Meet Fountain: Fast Data Dissemination in Wireless Sensor Network
Wan Du, Jansen Christian Liando, **Huanle Zhang** and Mo Li
- IJCS'14 Analysis of Accessing to the Nearest and to the Strongest Base Station in Femtocell Networks
Huanle Zhang, Jian Liu and Haili Shi
- Globecom'13 Analysis of Femtocell Coverage Fraction and Isolated Probability Using Stochastic Geometry
Huanle Zhang, Jian Liu, Yupeng Jia and Yulu Ma
- AISS'13 OFDMA Femtocell Gateway Scheduling Based on Coloring
Huanle Zhang, Jian Liu, Yu Fu and Niangeng Guo
- CCT'13 Optimal Transmission Distance of Mean Progress and Mean Transport in Device-to-device Networks
Huanle Zhang, Yu Fu and Jian Liu
- MINES'13 A Tractable Framework for Power Consumption in Femtocell Networks
Huanle Zhang, Jian Liu and Niangeng Guo
- SEIS'13 Policy on Downlink Access of Femtocell Based on OFDMA in Dense Employment Residential Environment
Huanle Zhang and Jian Liu