

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, Sarit Mukherjee, Mostafa Uddin, **Huanle Zhang**

AWARDS

- 2015 Best Paper Award, ACM Conference on Embedded Networked Sensor Systems (ACM SenSys)
2013 Student Travel Grant, IEEE Global Communication Conference (IEEE Globecom)

PUBLICATIONS

- TMC (Minor Revision) 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