ZHE WANG

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EDUCATION

Shanghai Jiao Tong University
PH.D. CANDIDATE IN COMPUTER SCIENCE AND ENGINEERING DEPARTMENT   April. 2019 -
- Supervised by Linghe Kong in Advanced Network Laboratory

Shanghai Jiao Tong University
M.E. CANDIDATE IN COMPUTER SCIENCE AND ENGINEERING DEPARTMENT   Sept. 2017 - April. 2019
- Supervised by Linghe Kong in Advanced Network Laboratory
- Overall GPA: 3.76/4.0

Shanghai University
B.E. IN COMPUTER SCIENCE AND ENGINEERING DEPARTMENT   Sept. 2013 - Jun. 2017
- Overall GPA: 3.0/4.0

RESEARCH INTEREST

Currently my research interest includes wireless network, mobile computing and data center network. I master basic knowledge in common wireless protocols, e.g., ZigBee, WiFi and LoRa. Besides, I am also interested in and wish to extend my research areas to AI, network security and Web applications.

PUBLICATIONS

MOBISYS 2020 (To be submitted)	Cross-Distance Communication for Internet-of-Things **Zhe Wang**, Linghe Kong, KangjieXu, YifengCao, Liang He, Guihai Chen
TON (To be submitted)	Channel Estimation based Multi-Packet Reception in ZigBee Communications Linghe Kong, **Zhe Wang**, Xue Liu, Guihai Chen
TON (To be submitted)	Reference Waveforms Forward Concurrent Transmissions in ZigBee Communications **Zhe Wang**, YifengCao, Linghe Kong, Guihai Chen, Jiadi Yu, Shaojie Tang, Yingying Chen
INFOCOM 2020	Online Current Transmissions at LoRa Gateway **Zhe Wang**, Linghe Kong, Kangjie Xu, Liang He, Kaishun Wu, Guihai Chen
CWSN 2019 (Best Paper Award)	Rate Adaptive Broadcast in Internet of Things Linghe Kong, **Zhe Wang**, Yongshuai Duan, Tong Meng, Fan Wu, Guihai Chen.
SmartCom 2019 (Best Student Paper Award)	nnD: Shallow Neural Network Based Collision Decoding in IoT communications **Zhe Wang**, Linghe Kong, Guihai Chen and Ming Ni
ICNP 2019 (Co-primary author)	Forward the Collision Decomposition in ZigBee YifengCao*,**Zhe Wang***, Linghe Kong, Guihai Chen, Jiadi Yu, Shaojie Tang, Yingying Chen
TGCN	Preamble and Postamble Based Multi-Packet Reception for Green ZigBee Communication **Zhe Wang**, Linghe Kong, Kangjie Xu, Guihai Chen and Liang He
GLOBECOM 2018	PPM: Preamble and Postamble Based Multi-Packet Reception for Green ZigBee Communication **Zhe Wang**, Linghe Kong, Guihai Chen and Liang He
TRUSTCOM 2018 (Best Demo Award)	A Case Study of Accelerating Apache Spark with FPGA Junjie Hou, Yongxin Zhu, Linghe Kong, **Zhe Wang**, Sen Du, Shijin Song, Tian Huang

PROJECT

Cross Distance Communication between LoRa and ZigBee.   Winter, 2018 -
- The system is developed to enable cross technology communication between LoRa and ZigBee. It is built on commodity LoRa, ZigBee devices and USRP with GNURadio.

LoRa's Online Concurrent Transmission System   Spring, 2019 -
- The system is developed to enable online concurrent transmissions at LoRa gateway. It is built on commodity LoRa devices and USRP with GNURadio.

ZigBee's Multi-packet Decomposition System   Winter, 2017- Winter, 2018
- The system is developed to forward multi-packet reception in ZigBee. It is built on USRP with GNURadio.

A Case Study of Accelerating Apache Spark with FPGA   Summer, 2017- Winter, 2017
- Implementing FPGA deployment on Apache Spark cluster. It is built on FPGA and Spark cluster.

TEACHING EXPERIENCE

SJTU CS146 C Programming, TA   Spring, 2019
SJTU CS053 C++ Programming, TA   Fall, 2018
SJTU CS146 C Programming, TA   Spring, 2018

HONOR & AWARD

First Prize of National University Internet Finance Application
and Innovation Competition   2018
Class-A Scholarship for Graduates, SEIEE, SJTU   2018-2019
4Paradigm(Beijing) Scholarship, SEIEE, SJTU   2018

SKILL

Language
Native: Chinese
Proficient: English (CET4: 523, CET6: 483)

CS Skills
Proficient: Python, C++, C, Latex, MATLAB
Experience: Web&Android Development, Java, Shell,JavaScript, HTML, SQL, NoSQL

Hardware
Experience: USRP N210, cortex