侯璐 ♂
个人简历

🏠 | 北京市海淀区西土城路 10 号
📞 | +86-15501081468
✉ | houlu8674@bupt.edu.cn
🖥 | https://www.houlu.me
○ | https://github.com/houluy
in | https://www.linkedin.com/in/houlu
💬 | guaguade
🔴 | astrooooo

博士研究

"面向车联网的移动云网络资源管理与优化研究"，来自 "国家自然科学基金项目"

My research examined the use of ELW pulses from a mode-locked source array inducted through transuranic crystals to observe entanglement on supraquantum structures. Theoretical advancements included prediction of quantum resonance phenomena including the possibility of resonance cascades. I was motivated to conduct this doctoral research due to my passion for teleportation of matter and I believe I have laid the foundation for further experimental validation and development of practical outcomes.

主要研究方向

物联网云平台	架构设计、实现、性能优化
LORAWAN™ 系统	协议分析、架构设计、实现、性能优化
车联网	资源管理与优化算法研究

项目经历

SEP. 2014 – JUN. 2015 (C)

IEEE 802.11p 协议栈与应用开发
开发者

参与开发了车联网 IEEE 802.11p 通信协议的协议栈，并在 ARM 开发板上实现了碰撞预警等应用。

SEP. 2016 – NOW (NODE.JS)

物联网云平台设计与实现
副团队领导人

Alexa 接入

OCT. 2017 – NOW (NODE.JS)

LoRaWAN™ 系统设计与实现
小组领导人

领导小组设计实现基于 LoRaWAN™ 协议的系统，并进行性能优化

SEP. 2015 – NOW (PYTHON)

车联网资源分配算法研究
个人

已发表论文

1. **Lu Hou**, Shaohang Zhao, Xiong Xiong, Kan Zheng, Periklis Chatzimisios, M. Shamim Hossain, Wei Xiang, "Internet of things cloud: architecture and implementation," *IEEE Communications Magazine*, vol. 54, no. 12, Dec. 2016, pp. 32-39. (IF = 10.435)

2. **Lu Hou**, Shaohang Zhao, Xing Li, Periklis Chatzimisios, Kan Zheng, "Design and implementation of application programming interface for Internet of things cloud," *International Journal of Network Management*, vol. 27, no. 3, June 2016. (IF = 1.118)

教育经历

2014 – 2019	工学博士	智能计算与通信实验室 北京邮电大学
2010 – 2014	工学学士	信息与通信工程学院 北京邮电大学
JUNE 2019	毕业	北京邮电大学

获奖情况

2017	国家奖学金	北京邮电大学智能计算与通信实验室
2018	北京邮电大学博士生创新基金资助项目	北京邮电大学智能计算与通信实验室
2018	第二届良飞奖	北京邮电大学智能计算与通信实验室

计算机技能

精通	Microsoft Office, Git, reStructuredText, Markdown, Linux, vim,
熟悉	

编程技能

精通	Python🐍, Node.js⬢
熟悉	C, C++, MATLAB, LaTeX, SQL, shell, HTML
了解	Go, Rust, lisp, Javascript, Java

工具与框架

精通	Jupyter Notebook,
熟悉	Elasticsearch, Readthedocs, Nginx, Kafka

通信协议

精通	HTTP, MQTT
熟悉	Elasticsearch, Readthedocs, Nginx

3. **Lu Hou**, Kan Zheng, Periklis Chatzimisios, Yi Feng, "A continuous-time Markov decision process-based resource allocation scheme in vehicular cloud for mobile video services," *Computer Communications*, vol. 118, Mar. 2018, pp. 140-147. (IF = 3.338)

4. **Lu Hou**, Lei Lei, Kan Zheng, "Design on publish/subscribe message dissemination for vehicular networks with mobile edge computing," *2017 IEEE GLOBECOM*, Dec. 2017

5. Kan Zheng, **Lu Hou**, Hanling Meng, Qiang Zheng, Ning Lu, Lei Lei, "Soft-defined heterogeneous vehicular network: architecture and challenges," *IEEE Network*, vol. 30, no. 4, July 2016, pp. 72-80.(IF = 7.23)

6. Xiong Xiong, **Lu Hou**, Kan Zheng, Wei Xiang, M. Shamim Hossain, and Sk Md Mizanur Rahman, "SMDP-based radio resource allocation scheme in software-defined internet of things networks," *IEEE Sensors Journal* vol. 16, no. 20, June 2016, pp. 7304-7314. (IF = 2.512)

7. Xiong Xiong, **Lu Hou**, Long Zhao, "A Group-Based Massive Multiple Access Scheme in Cellular M2M Networks," *Computer Communications*, vol. 121, May. 2018, pp. 44-49. (IF = 3.338)

英语技能

具有熟练地听、说、读、写英语的能力

技能

服务架构设计
理解架构设计原理性知识。具有一定实践经验。

Python 编程能力
具有多年 Python 经验。

增强学习
熟悉增强学习各类算法。

团队领导
具有一定的团队领导能力。

写作能力
具有极强的文档、报告、记录、PPT 写作和排版能力。

Lu Hou♂
Curriculum Vitae

🏠 No. 10, Xitucheng Road, Beijing
📞 +86-15501081468
✉ houlu8674@bupt.edu.cn
🖥 https://www.lucima.cn
🐙 https://github.com/username
in https://www.linkedin.com/in/username
💬 guaguade
🔴 astrooooo

DOCTORAL RESEARCH

"Research on Resource Management and Optimization of Mobile Cloud Networks for Internet of Vehicles" from *The National Natural Science Foundation of China*

My research examined the use of ELW pulses from a mode-locked source array inducted through transuranic crystals to observe entanglement on supraquantum structures. Theoretical advancements included prediction of quantum resonance phenomena including the possibility of resonance cascades. I was motivated to conduct this doctoral research due to my passion for teleportation of matter and I believe I have laid the foundation for further experimental validation and development of practical outcomes.

MAJOR RESEARCH DIRECTIONS

INTERNET OF THINGS CLOUD

LORA SOLUTIONS

VEHICULAR NETWORKS

PROJECT EXPERIENCES

CURRENT, FROM JAN 1995 (FT)

Black Mesa Research Facility
Team Leader (Anomalous Materials)

As part of this promotion, I began conducting nuclear and subatomic research in the Anomalous Materials department. My team and I are particularly interested in dimensionality and its interaction with space-time. The focus is on practical outcomes and applications in teleportation and communication with distal locations.

FEB 1991 – JAN 1995 (FT)

Black Mesa Research Facility
Level 3 Research Associate

This position involved transitioning from purely theoretical work to experimental applications utilising the immense resources of Black Mesa. The transition required an initial learning curve in hazard containment, health and safety procedures and operating experimental infrastructure. Manipulating valves, carts, buttons, levers, etc considerably increased my physical fitness.

JUL 1982 – DEC 1984 (PT)

WashPests Limited
Pest Control Technician

In this summer job I was tasked with helping eradicate pests from industrial areas. Work involved setting traps, spraying and physical eradication. I received praise for reaching difficult areas and my innovative use of a crowbar to assist in my work.

EDUCATION

2014 – 2019	**Doctor of Philosophy** Intell. Comput. and Commun. Lab *Beijing Univ. of Posts and Telecom.*
2010 – 2014	**Bachelor of Engineering** School of Inform. and Commun. Eng. *Beijing Univ. of Posts and Telecom.*
JUNE 2019	**Graduation** *Beijing Univ. of Posts and Telecom.*

AWARDS

2017	**China National Scholarship** *Intell. Comput. and Commun. Lab* *Beijing Univ. of Posts and Telecom.*
2018	**BUPT Excellent Ph.D. Students Foundation** *Intell. Comput. and Commun. Lab* *Beijing Univ. of Posts and Telecom.*
2018	2th **LiangFei Scholarship** *Intell. Comput. and Commun. Lab* *Beijing Univ. of Posts and Telecom.*

PROGRAMMING SKILLS

EXPERT	Python🐍, Node.js⬡
INTERMEDIATE	C, C++, MATLAB, LaTeX, SQL shell, HTML, Javascript, CSS
BEGINNER	Go, Rust, lisp, Java

ENGLISH SKILLS

Able to *Listen*, *Speak*, *Read* and *Write* English skillfully.

SKILLS

Goal Oriented

I believe in action over long-winded discussions. I listen to everyone's viewpoints and use my judgement to immediately act based on consensus to achieve goals quickly and efficiently.

Physical Dexterity

Manual manipulation of experimental equipment and training within Black Mesa (e.g. the Hazard Course) have contributed to an enjoyment of working with my hands.

Passionate

I have been interested in theoretical physics such as quantum mechanics and relativity from an early age. My education and research have cemented this interest into a pas-

sion. I greatly enjoy carrying out fundamental physics research with potential practical applications.

PUBLICATIONS

1. **Lu Hou**, Shaohang Zhao, Xiong Xiong, Kan Zheng, Periklis Chatzimisios, M. Shamim Hossain, Wei Xiang, "Internet of things cloud: architecture and implementation," *IEEE Communications Magazine*, vol. 54, no. 12, Dec. 2016, pp. 32-39. (IF = 10.435)

2. **Lu Hou**, Shaohang Zhao, Xing Li, Periklis Chatzimisios, Kan Zheng, "Design and implementation of application programming interface for Internet of things cloud," *International Journal of Network Management*, vol. 27, no. 3, June 2016. (IF = 1.118)

3. **Lu Hou**, Kan Zheng, Periklis Chatzimisios, Yi Feng, "A continuous-time Markov decision process-based resource allocation scheme in vehicular cloud for mobile video services," *Computer Communications*, vol. 118, Mar. 2018, pp. 140-147. (IF = 3.338)

4. **Lu Hou**, Lei Lei, Kan Zheng, "Design on publish/subscribe message dissemination for vehicular networks with mobile edge computing," *2017 IEEE GLOBECOM*, Dec. 2017

5. Kan Zheng, **Lu Hou**, Hanling Meng, Qiang Zheng, Ning Lu, Lei Lei, "Soft-defined heterogeneous vehicular network: architecture and challenges," *IEEE Network*, vol. 30, no. 4, July 2016, pp. 72-80.(IF = 7.23)

6. Xiong Xiong, **Lu Hou**, Kan Zheng, Wei Xiang, M. Shamim Hossain, and Sk Md Mizanur Rahman, "SMDP-based radio resource allocation scheme in software-defined internet of things networks," *IEEE Sensors Journal* vol. 16, no. 20, June 2016, pp. 7304-7314. (IF = 2.512)

7. Xiong Xiong, **Lu Hou**, Long Zhao, "A Group-Based Massive Multiple Access Scheme in Cellular M2M Networks," *Computer Communications*, vol. 121, May. 2018, pp. 44-49. (IF = 3.338)