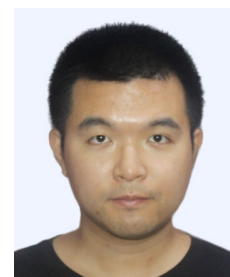


# 郑策

## 个人信息

工作单位: 索尼中国研究院  
Email: ce.zheng@sony.com  
chriszhengce123@163.com  
手机号: +86 13335281561  
出生地: 山东, 中国  
出生日期: 1991 年 10 月 15 日



## 工作经历

索尼中国研究院	2021.08 - 至今
无线研究员/研究科学家 (科学家岗)	
国际标准组织 3GPP SA2 代表 (Delegate)	
法国科学研究院 (CNRS)	2017.10 - 2020.10
研究员	

## 博士课题

"Impulsive and Dependent Interference Modeling in IoT Networks", funded by [ARBurst](#)

## 教育背景

里尔大学, 法国, 博士	2017.10 - 2020.10
导师: Laurent CLAVIER & Malcolm EGAN	
奥尔堡大学, 丹麦, 项目交换	2019.09 - 2019.12
导师: Troels PEDERSEN & Petar POPOVSKI (IEEE Fellow)	
西安交通大学, 中国, 硕士	2013.09 - 2016.07
导师: 罗新民	
哈尔滨工业大学, 中国, 本科	2009.09 - 2013.07
导师: 赵洪林	

## 访学经历

CITI-LAB, INSA Lyon, 里昂, 法国	2018.12
1st Winter School on Information Theory and Signal Processing for Internet of Things	
德岛大学, 德岛, 日本	2014.07 - 2014.08
The Electrical and Information Science Course Program	
加州大学洛杉矶分校, 洛杉矶, 美国	2014.02 - 2014.03
American Language Center Intensive English Communication Program	

## 奖励荣誉

<b>Mobility Grant</b> , 欧盟	2019
支持本人在丹麦奥尔堡大学访问的费用	
<b>IRACON 5th TS Grant</b> , 欧盟	2019
支持本人在 INSA Lyon 访问的费用	
<b>研究生奖学金</b> , 中国	2016-2019
免除三年学费及生活费支持	

## 学术论文

- Qiong Liu, Chenhao Wang, **Ce Zheng**, “Distributed Decisions on Optimal Load Balancing in Loss Networks”, In *IEEE Global Communications Conference, 2023* (To be submitted)
- Ce Zheng**, Shiyao Ma, Chen Sun, “How to Use Machine Learning to Aide Federated Learning: Exploiting Meta-data in UE Selection”, *IEEE International Conference on Communications (ICC), 2022* (Under Review)
- Ce Zheng**, Tianming Zang, Wei Chen, Shiyao Ma, Chen Sun, “A General Solution for Straggler Effect and Unreliable Communication in Federated Learning”, *IEEE International Conference on Communications (ICC), 2022* (Under Review)
- Ce Zheng**, Tianming Zang, Wei Chen, Shiyao Ma, Chen Sun, “How to Exploit 3GPP Parameters for Federated Learning: A General UE Selection Approach by Clustering”, *IEEE Journal on Selected Areas in Communications(JSAC), 2022* (Under Review)
- Ce Zheng**, Malcolm Egan, Laurent Clavier, Gareth W. Peters, Jean-Marie Gorce, “On the interference arising from random spatial fields of interferers utilizing multiple subcarriers”, In: *EURASIP Journal on Wireless Communications and Networking. 2022 ; Vol. 2022.*
- Ce Zheng**, Malcolm Egan, Laurent Clavier, Petar Popovski, Anders Ellersgaard Kalør, “Stochastic Resource Allocation for Outage Minimization in Random Access with Correlated Activation”, In *2022 IEEE Wireless Communications and Networking Conference (WCNC)*. (pp. 1-6), Austin, US
- Ce Zheng**, Malcolm Egan, Laurent Clavier, Petar Popovski, Anders Ellersgaard Kalør, “Stochastic Resource Optimization of Random Access for Transmitters with Correlated Activation”, In *2021 IEEE Communication Letters*
- Ce Zheng**, Malcolm Egan, Laurent Clavier, Troels Pedersen and Jean-Marie Gorce. “Linear Combining in Dependent  $\alpha$ -Stable Interference”, In *2020 IEEE International Conference on Communications (ICC)* (pp. 1-6), Dublin, Ireland.
- Ce Zheng**, Egan Malcolm, Laurent Clavier, Gareth W. Peters, Gorce, Jean-Marie. “On the Validity of Isotropic Complex  $\alpha$ -Stable Interference Models for Interference in the IoT” In *2019 GRETSI, Groupe d’Etudes du Traitement du Signal et des Images.*
- Ce Zheng**, Egan Malcolm, Laurent Clavier, Gareth W. Peters, Gorce, Jean-Marie. “Copula-Based Interference Models for IoT Wireless Networks” In *2019 IEEE International Conference on Communications (ICC)* (pp. 1-6), Shanghai, China.
- Egan Malcolm, Laurent Clavier, **Ce Zheng**, Mauro De Freitas, Jean-Marie Gorce. “Dynamic interference for uplink SCMA in large-scale wireless networks without coordination” *EURASIP Journal on Wireless Communications and Networking* 2018, no. 1 (2018): 213.

**Ce Zheng**, Jiancun Fan, and Xinmin Luo. “Spectrum and energy efficiency analysis of ultra dense network with sleep.” *2016 8th IEEE International Conference on Communication Software and Networks (ICCSN)*.

## 专利

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Wei Chen, Tianming Zang, **Ce Zheng**, Chen Sun. “An UE Selection Approach for FL: Clustering Based on Individual Physical Parameters or Performance Metrics”. 2022

Wei Chen, Yuanrui Liu, **Ce Zheng**, Chen Sun. “Sidelink-enhanced Model Splitting and Transmission Scheme between AI/ML Endpoints”. 2022

**Ce Zheng**, Chen Sun. “A Service Guarantee Strategy in Federated Learning Network”. 2022

**Ce Zheng**, Chen Sun. “A Handover Scheme in Hierarchical Federated Learning ”. 2022

Wei Chen, Junjie Wu, **Ce Zheng**, Chen Sun. “Federated Learning in V2X Communications for Side-link Enhancement”. 2022

Wei Chen, Zhanyuan Xie, **Ce Zheng**, Chen Sun. “A Scheme to Ensure Service Continuity During Handover between Vehicle Mounted Relays—Users Outside the Vehicle”. 2022

## 学术报告

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**Online** (29/11/2019 and 30/11/2021), *Choosing a proper starting point in SGD by exploiting dependence between features — an intuition from resource allocation in event triggered communication* 索尼 AI 大会, 索尼

**AALBORG** (13/11/2019 and 27/11/2019), *Copula Theory in Communication Society*, invited talk and hosted by Professor Petar POPOVSKI and Professor Troels PEDERSEN, Department of Electronics, 奥尔堡大学, 奥尔堡, 丹麦

**AALBORG** (30/09/2019 and 03/10/2019), *Modeling Impulsiveness and Dependence of Interference in Wireless Communication Network*, invited talk and hosted by Professor Troels PEDERSEN and Professor Petar POPOVSKI, Department of Electronics, 奥尔堡大学, 奥尔堡, 丹麦

**GUANGZHOU** (30/05/2019), *Interference Modeling for Wireless IoT Networks*, 特邀报告（陈立教授和 Dr. Ting-yi Wu）, 电子与通信工程学院, 中山大学, 广州, 中国

**RENNES** (06/03/2019), *Modeling Interference with  $\alpha$ -stable and Copulas*, ARBurst Project meeting, ITER Lab, 雷恩, 法国

**LILLE** (12/06/2018), *Dependent Impulsive Interference modeling*, Seminar on ‘Mathematics and IoT’, IRCICA Lab, 里尔, 法国

**LYON** (11/10/2018), *Modeling of Dependence in Impulsive Interference and Copula Theory*, ARBurst Project meeting, CITI-lab, 里昂, 法国

**RENNES** (14/02/2018), *Copula Theory and Dependence in Interference*, ARBurst Project meeting, ITER Lab, 雷恩, 法国

## 研究技能

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Matlab, Latex, Stochastic Geometry, Copula Theory,  $\alpha$ -stable, Markov Chain, Federated Learning, NOMA, SCMA, NB-IoT, LPWAN, XR, AI, VMR, 3GPP SA1 & SA2

## 语言技能

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普通话 (母语);  
英语 (精通): TOEFL 96;  
法语 (初级): A1;  
日语 (初级)