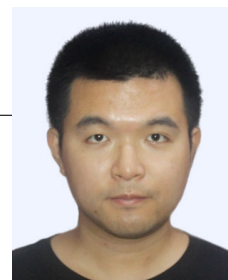


郑策

个人信息

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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

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

学术论文

- Ce Zheng**, Shiyao Ma, Chen Sun, “How to Use Machine Learning to Aide Federated Learning: Exploiting Meta-data in UE Selection”, *In 2023 IEEE Communication Letters* (To be submitted)
- Qiong Liu, Chenhao Wang, **Ce Zheng**, “Distributed Decisions on Optimal Load Balancing in Loss Networks”, (Submitted to ICC workshop 2023)
- Tianming Zang, **Ce Zheng**(corresponding author), Wei Chen, Shiyao Ma, Chen Sun, “[A General Solution for Straggler Effect and Unreliable Communication in Federated Learning](#)”, *In 2023 IEEE International Conference on Communications (ICC)*. (Accepted)
- 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

- Ce Zheng**, Chen Sun. ”A performance improvement and UE selection scheme based on sidelink enhancement in federated learning”. 2023 (filing)
- Ce Zheng**, Chen Sun. “A Split Learning (Model Splitting) Aided Federated Learning (SL-aided FL) Network”. 2023 (filing)
- Ce Zheng**, Chen Sun. ”[A Sidelink-enhanced Scheme for UE Selection, UE Performing Order Selection, and Model Transmission Link Selection in Split Learning](#)”. 2023 (filed)
- Wei Chen, Yuanrui Liu, **Ce Zheng**, Chen Sun. “[Sidelink-Enhanced Model Splitting and Transmission Scheme between AI/ML Endpoints](#)”. 2022 (filed)
- Ce Zheng**, Chen Sun. “[A Service Guarantee Scheme in Federated Learning \(FL\) Network](#)”. 2022 (filed)
- Ce Zheng**, Chen Sun. “[Handover in Hierarchical Federated Learning Network](#)”. 2022 (filed)
- Wei Chen, Junjie Wu, **Ce Zheng**, Chen Sun. “[Federated Learning in V2X Communications for Side-link Enhancement](#)”. 2022 (filed)
- 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 (filed)

学术报告

- 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 α -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

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

语言技能

普通话 (母语);

英语 (精通): TOEFL 96;

法语 (初级): A1