Dingjia Lin

 □ brianinuk@outlook.com **UK**: +44(0)7535666763 **China**: +8615980236912 Dingjia Lin

Education

PhD 03/2021 - 12/2024 University of Manchester, UK • Supervisor: Prof. Zhiguo Ding (FIEEE) 🗹 · Department of Electrical and Electronic Engineering MSC University of Southampton, UK 09/2019 - 12/2020 • School of Electronics and Computer Science Mobile Communication and Smart Networking University of Sheffield, UK 09/2017 - 12/2018 MSC • Department of Electronic and Electrical Engineering • Wireless Communication System BEng Chongqing University of Posts and Telecommunications, China 09/2013 - 06/2017

- College of Communication and Information Engineering
- · Communication Engineering

Research Interests _

Non-Orthogonal Multiple Access (NOMA), Backscatter Communication (BackCom), Convex Optimization, Non-Convex Optimization, Matching Theory, Cognitive Radio, Fluid Antenna System (FAS)

Publications _____

[J3] Energy-Efficiency Maximization in Backscatter Communication Based Non-Orthogonal Multiple Access System: Dinkelbach and Successive Convex Approximation Approaches

Aug 2024

Dingjia Lin, Tianqi Wang, Kaidi Wang, Zhiguo Ding in IET Signal Processing, 2024, 4107801, 12 pages

doi: 10.1049/2024/4107801

[C1] Uplink Data Rate Maximization with Channel Uncertainties in BackCom NOMA **System**

Jul 2024

Dingjia Lin, Suhaib M. Al-Basit, Kaidi Wang, Zhiguo Ding

2024 International Symposium on Wireless Communication Systems (ISWCS), Rio de Janeiro, Brazil, 2024, pp. 1-6 doi: 10.1109/ISWCS61526.2024.10639114 🗹

[J2] Uplink Data Rate Maximization in Multi-Cell BackCom NOMA Systems

Jan 2024

Dingjia Lin, Kaidi Wang, Tianqi Wang, Zhiguo Ding

in IEEE Open Journal of the Communications Society, vol. 5, pp. 526-539, 2024

doi: 10.1109/OJCOMS.2023.3349277 🗹

[J1] Beamforming Design for BackCom Assisted NOMA Systems

May 2023

Dingjia Lin, Kanapathippillai Cumanan, Zhiguo Ding

in IEEE Wireless Communications Letters, vol. 12, no. 9, pp. 1494-1498, Sept. 2023

doi: 10.1109/LWC.2023.3279668

Publications (Submitted and in Preparation) _____

EE Maximization with Imperfect CSI at Transmitter in BackCom NOMA System

Submitted

Dingjia Lin, Suhaib M. Al-Basit, Kaidi Wang, Zhiguo Ding in IEEE Transactions on Vehicular Technology

Power Minimization in FAS Assisted NOMA Networks

in Preparation

Dingjia Lin, Kaidi Wang, Tianqi Wang, Zhiguo Ding

Additional Skills _____

IT Skills: Python, MATLAB, ŁTFX, MS Office, Photoshop, Lightroom.

Languages: English – fluent, Chinese – native.

Interests: Photography; Reading; Astronomical Observation; Writing