Baiping Xiong

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Google Scholar IEEE Page

Research Interests

Channel Modeling and Performance Analysis, UAV/V2X/RIS Communications, Wireless Communication and Sensing, Near-field Communications, Deep Learning

Education

Southeast University Nanjing, China
Ph.D. in Information and Communication Engineering Sep. 2019 – Jun. 2024 (Expected)
Advisor: Prof. Zaichen Zhang
Research Topic: Research on wireless channels of 6G unmanned system and RIS

Southeast University Nanjing, China
B.S. in Information Engineering Aug. 2015 – Jun. 2019
GPA: 3.94/4.0

Awards & Honors

- Outstanding Student Award of Jiangsu Province 2023
- National Scholarship 2018 and 2022
- "Zheng·Youth" Graduate Student of the Year in SEU 2022
- Outstanding Graduate Student Cadre in SEU 2020, 2021, and 2022
- 3rd place of the Best Paper Award at WCSP2021 2021
- Outstanding Volunteer Award in SEU 2019 and 2021
- Outstanding Undergraduate Award in SEU 2019
- Excellent Undergraduate Thesis Award in SEU 2019

Publications

(* denotes equal contribution)

[9] Baiping Xiong, Z. Zhang, and J. Wang, "Dynamic sub-array based modeling for large-scale RIS-assisted mmWave UAV channels," in ***Proc. IEEE GlobeCom***, Dec. 2023. [Link]

[8] H. Jiang, **Baiping Xiong**, H. Zhang, and E. Basar, "Physics-based 3D end-to-end modeling for double-RIS assisted non-stationary UAV-to-ground communication channels," ***IEEE Trans. Commun.***, Jul. 2023. [Link]

[7] H. Jiang*, **Baiping Xiong***, H. Zhang, and E. Basar, "Hybrid far- and near-field modeling for reconfigurable intelligent surface assisted V2V channels: A sub-array partition based approach," ***IEEE Trans. Wireless Commun.***, Mar. 2023. [Link]

[6] Baiping Xiong, Z. Zhang, and H. Jiang, "Reconfigurable intelligent surface for mmWave mobile communications: What if LoS path exist?" ***IEEE Wireless Commun. Lett.***, Feb. 2023. [Link]

[5] Baiping Xiong, Z. Zhang, H. Jiang, J. Zhang, L. Wu, and J. Dang, "A 3D non-stationary MIMO channel model for reconfigurable intelligent surface auxiliary UAV-to-ground mmWave communications," ***IEEE Trans. Wireless Commun.***, Jul. 2022. [Link]

[4] Baiping Xiong, Z. Zhang, H. Jiang, H. Zhang, J. Zhang, L. Wu, and J. Dang, "A statistical MIMO channel model for reconfigurable intelligent surface assisted wireless communications," ***IEEE Trans. Commun.***, Feb.

2022. [Link]

[3] H. Jiang, Z. Zhang, **Baiping Xiong**, J. Dang, L. Wu, and J. Zhou, "A 3D stochastic channel model for 6G wireless double-IRS cooperatively assisted MIMO communications," in ***Proc. IEEE WCSP***, Oct. 2021. [Link]

[2] H. Jiang, **Baiping Xiong**, Z. Zhang, J. Zhang, H. Zhang, J. Dang, and L. Wu "Novel statistical wideband MIMO V2V channel modeling using unitary matrix transformation algorithm," ***IEEE Trans. Wireless Commun.***, Aug. 2021. [Link]

[1] **Baiping Xiong**, Z. Zhang, J. Zhang, H. Jiang, J. Dang, and L. Wu, "Novel multi-mobility V2X channel model in the presence of randomly moving clusters," ***IEEE Trans. Wireless Commun.***, May 2021. [Link]

Presentations

- *A 3D Stochastic Channel Model for 6G Wireless Double-IRS Cooperatively Assisted MIMO Communications* in WCSP2021 2021

Academic Activities

Session Chair

- *UAV Communications Symposium* in IEEE WCSP2022 2022

Track Chair

- *UAV Communications Symposium* in IEEE WCSP2022 2022

TPC Member

- *UAV Communications Symposium* & *Integrated Sensing, Communication, and Computing Symposium* in IEEE WCSP2022 2022

Reviewer

- IEEE Wireless Communications Letters 2023
- ICT Express 2023
- IET Communications 2023
- IEEE Transactions on Cognitive Communications and Networking 2023
- IEEE Transactions on Wireless Communications 2022-2023
- IEEE Transactions on Communications 2022-2023
- Wireless Communications and Mobile Computing 2022
- IEEE GlobeCom 2022, VTC-Spring/Fall 2022, WCSP 2021-2023, ICCC 2022, ICCT 2023