Hongwei CUI

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Hong Kong, China



EDUCATION

• Ph.D. Information Engineering

The Chinese University of Hong Kong (QS #36) Supervised by Prof. Soung Chang Liew 2021 - Present

Interested Research Area:

- Optical wireless communication
- LLM-based AI agents
- IoT systems
- AI-powered wireless communication

• B.S. Electronic Information Engineering

Shandong University

CGPA: 4.625/5.0 (Ranking 1st in Chongxin College) 2017 - 2021

AWARDS & RECOGNITION

- Outstanding Undergraduate Dissertation Shandong University
 2021
- First Prize of Taishan Student Scholarship
 Tai Shan Students Foundation
 2024

SKILLS

• Research and Development Abilities

- Analog/digital circuit design and simulation
- PCB layout
- IoT and embedded system development
- 3D modeling and rendering
- Web front-end development
- Mobile application (React) development
- Game engine development
- Optical simulation

Programming Languages

C, C++, Python, Pytorch, HTML5, JavaScript, Verilog, Java

RESEARCH WORKS

- Intelligent Reconfigurable Optical Wireless Ether Hongwei Cui, Soung Chang Liew arXiv (Preprint)
 2025/2/10
- Wi-LiFi: Integrated Optical Wi-Fi for Enhanced Mobile Robotic Communications and Localization
 Hongwei Cui, Soung Chang Liew, He Chen
 IEEE Transactions on Vehicular Technology
 2024/12/13
- LLMind: Orchestrating AI and IoT with LLM for Complex Task Execution

Hongwei Cui, Yuyang Du, Qun Yang, Yulin Shao, Soung Chang Liew IEEE Communications Magazine 2024/9/27

Wi-LiFi: Integrated Optical Wi-Fi for Enhanced Mobile Robotic Communications

Hongwei Cui, Soung Chang Liew, He Chen IEEE International Conference on Communications 2024/6/9

PATENT

 ◆ 一种Wi-Fi信道检测系统及方法 (A Wi-Fi Channel Detection System and Method)

崔洪玮 (Hongwei Cui)

Patent Number: ZL2022101481253

2022/5/6

HOBBIES & INTERESTS









Electronic Circuit AI & LLM

Photography

Guitar