

Jiawei Hou

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Research Interests

Video Analytics, Networking, Deep Learning, Edge Computing

Educations

Huazhong University of Science and Technology.

Ph.D in Communication Engineering (Advised by Prof. Peng Yang)

Wuhan, China

Sep. 2022 - present

Hainan University.

Bachelor in Electronic & Information Engineering

Haikou, China

Sep. 2018 - Jun. 2022

Publications

Conference Papers

1. [Edge-Assisted Lightweight Region-of-Interest Extraction and Transmission for Vehicle Perception](#), Yan Cheng, Peng Yang, Ning Zhang, **Jiawei Hou**, IEEE GLOBECOM, 2023.
2. [Edge-Coordinated On-Road Perception for Connected Autonomous Vehicles Using Point Cloud](#), **Jiawei Hou**, Peng Yang, Tian Qin, Wen Wu, Biennial Symposium on Communications, 2023.
3. [Edge-Assisted Low-Latency Object Detection for Networked Vehicles Using Point Cloud](#), Tian Qin, **Jiawei Hou**, Peng Yang, Xiaofeng Cao, Ye Wu, International Conference on Cloud and Network Computing, 2024.
4. Adaptive Offloading and Enhancement for Low-Light Video Analytics on Mobile Devices, Yuanyi He, Peng Yang, Tian Qin, **Jiawei Hou**, Ning Zhang, IEEE GLOBECOM, 2024.

Journal Papers

1. [Edge-coordinated energy-efficient video analytics for digital twin in 6G](#), Peng Yang, **Jiawei Hou**, Li Yu, Wenxiong Chen, Ye Wu, China Communications, 2023.
2. [Dependence-Aware Multi-Task Scheduling for Edge Video Analytics With Accuracy Guarantee](#), Chengzhi Wang, Peng Yang, **Jiawei Hou**, Zhi Liu, Ning Zhang, IEEE Internet of Things Journal, 2024.