

Dr. Jingwen Tong

School of Informatics

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Other: IEEE Student Member, No.94429903

Work Experience

Postdoctoral Fellow

Aug. 2022 - Present

Department of Electronic and Computer Engineering (ECE)

The Hong Kong University of Science and Technology (HKUST)

Room 3112A, Academic Building, HKUST, Clear Water Bay, Kowloon, NT, Hong Kong

Research Supervisor: Professor, Jun Zhang

Biography

Ph.D. Degree, School of Informatics

Sep. 2018 - Jun. 2022

Xiamen University, Xiamen, China

Research Supervisor: Professor, Liquan Fu

Exchange Std., Dept. of Electrical and Computer Engineering

Oct. 2019 - Nov. 2020

University of Houston, Houston, USA

Research Supervisor: Professor, Zhu Han

M.S. Degree, Communication and Information System

Sep. 2015 - Jun. 2018

Ningbo University, Ningbo, China

Research Supervisor: Professor, Ming Jin

B.S., Degree, Communication Engineering

Sep. 2011 - Jun. 2015

China Jiliang University, Hangzhou, China

Journals

Zhenzhen Chen, **Jingwen Tong**, Liquan Fu, Jun Zhang, and Zhu Han. From Learning to Analytics: Improving Model Efficacy with Goal-Directed Client Selection [J], *IEEE Transactions on Wireless Communications*, (Jan. 2023, Submitted)

Liquan Fu, **Jingwen Tong**, Tongtong Lin, and Jun Zhang. Online Resource Allocation for User Experience Improvement in Mobile Edge Clouds [J], *IEEE Transactions on Wireless Communications*, (Oct. 2022, Submitted)

Jingwen Tong, Liquan Fu, Yizhe Wang, and Zhu Han. Model-Based Thompson Sampling for Frequency and Rate Selection in Underwater Acoustic Communications [J], *IEEE Transactions on Wireless Communications*, (Accepted)

Jingwen Tong, Liquan Fu, and Zhu Han. Age-of-Information Oriented Scheduling for Multi-Channel IoT Systems with Correlated Sources [J], *IEEE Transactions on Wireless Communications*, Doi: 10.1109/TWC.2022.3179305.

Jingwen Tong, Hongliang Zhang, Liquan Fu, Amir Leshem, and Zhu Han. Two-Stage Resource Allocation in Reconfigurable Intelligent Surface Assisted Hybrid Networks via Multi-Player Bandits [J], *IEEE Transactions on Communications*, vol. 70, no. 5, pp. 3526-3541, May 2022.

Jingwen Tong, Liquan Fu, and Zhu Han. Throughput Enhancement of Full-Duplex CSMA Networks Using Multi-Player Bandits [J], *IEEE Internet of Things Journal*, 2021, Mar. 3, 15(8):11807-11821.

Jingwen Tong, Ming Jin, Qinghua Guo, and Youming Li. Cooperative Spectrum Sensing: A Blind and Soft Fusing Detector [J], *IEEE Transactions on Wireless Communications*, 2018, Apr. 4, 17(4):2726-2737.

Jingwen Tong, Ming Jin, Qinghua Guo, and Long Qu. Energy Detection under Interference Power Uncertainty [J], *IEEE Communications Letters*, 2017, Aug. 1, 21(8):1887-1890.

Conferences

Zhenzhen Chen, **Jingwen Tong**, Liquan Fu, and Zhu Han. Over-the-Air Computing Aided Federated Learning and Analytics via Belief Propagation Based Stochastic Bandits [C], *IEEE International Conference on Communications (ICC)*, (Review)

Jingwen Tong, Shuyue Lai, Liquan Fu, and Zhu Han. Optimal Frequency and Rate Selection Using Unimodal Objective Based Thompson Sampling Algorithm [C], *IEEE International Conference on Communications (ICC)*, 2020, Jun. 7, Dublin, Ireland.

Jingwen Tong, Liquan Fu, and Zhu Han. Throughput Enhancement of Full-Duplex CSMA Networks via Adversarial Multi-Player Multi-Armed Bandit [C], *IEEE Global Communications Conference (GLOBECOM)*, 2019, Dec. 9, Waikoloa, HI, USA.

Research Interests

- Multi-Armed Bandit (MAB), Learning to Optimize (L2O), Game Theory
- Resource Allocation in Wireless Communications
- Signal Detection and Processing

Service

Review for: IEEE Transaction on Wireless Communications; IEEE Transaction on Communications; IEEE Transaction on Vehicular Technology; IEEE Transaction on Cognitive Communications and Networking; IEEE Communications Magazine; IEEE Transactions on Mobile Computing; IEEE Journal on Selected Areas in Communications; IEEE Communications Letters; IEEE Wireless Communications Letters; Journal of Communications and Information Networks; Conferences such as ICC, VTC, WCNC, GLOBECOM, INFOCOM
Session Chair: IEEE/CIC International Conference on Communications in China (ICCC), Xiamen, 2021

Workshop Organization: Huawei-HKUST Joint Workshop on Theory for Future Wireless, 2022

Awards and Honors

Excellent doctoral dissertation , Xiamen University	2022
Outstanding Graduate , Xiamen University	2022
Wande scholarship , Xiamen University	2022
IEEE ComSoc Student Travel Grant , IEEE ComSoc	2020
The Chinese Government Scholarship , China Scholarship Council	2019
First-class Scholarship , Ningbo University	2018
Outstanding Graduate , Ningbo University	2018
Ningbo Graduate Academic Festival , Gold Award, Ningbo City	2017
National Graduate Mathematical Contest in Modeling , Second Prize, Ministry of Education	2017
National Graduate Mathematical Contest in Modeling , Second Prize, Ministry of Education	2016
National Inspirational Scholarship (2/80), Chinese Government	2013
National Undergraduate Electronic Design Competition , Second Prize, Ministry of Education	2013