

EDUCATION

Xidian University

Ph.D. in Cryptography

Xi'an, China

Aug. 2021 - Jun. 2025

- Research Area: 6G Networks, Evolutionary Algorithm, and Blockchain

Xidian University

M.E. in Information and Communications Engineering

Xi'an, China

Aug. 2019 - Aug. 2021

- Research Area: Internet of Vehicles and Blockchain

Xi'an University of Technology

B.E. in Internet of Things Engineering

Xi'an, China

Aug. 2015 - Jun. 2019

- Research Area: Internet of Things and Data Monitoring

RESEARCH INTERESTS

6G Networks: resource sharing, multi-objective optimization, security and privacy.

Blockchain: consensus mechanisms, distributed network management.

Internet of things: resource management, information sharing, distributed security.

PUBLICATIONS

1. **Kun Yan**, Wenping Ma, Shaohui Sun, and Weiwei Wang, "Blockchain-Based Dynamic Spectrum Sharing for Service-Centric 6G Networks: An Evolutionary Approach," in *IEEE Transactions on Network Science and Engineering*, Early Access. (IF=7.9)
2. **Kun Yan**, Wenping Ma, and Shaohui Sun, "Communications and Networks Resources Sharing in 6G: Challenges, Architecture, and Opportunities," in *IEEE Wireless Communications*, vol. 31, no. 6, pp. 102-109, Dec. 2024. (IF=10.9)
3. **Kun Yan**, Wenping Ma, Qi Yang, Shaohui Sun, and Weiwei Wang, "Info-Chain: Reputation-Based Blockchain for Secure Information Sharing in 6G Intelligent Transportation Systems," in *IEEE Internet of Things Journal*, vol. 11, no. 5, pp. 9198-9212, Mar. 2024. (IF=10.6)
4. **Kun Yan**, Ping Zeng, Kan Wang, Wenping Ma, Geng Zhao, and Yingjie Ma, "Reputation Consensus-Based Scheme for Information Sharing in Internet of Vehicles," in *IEEE Transactions on Vehicular Technology*, vol. 72, no. 10, pp. 13631-13636, Oct. 2023. (IF=6.8)
5. **Kun Yan**, Wenping Ma, and Shaohui Sun, "BECS: A Anonymous Computing Resource Sharing Mechanism in 6G Computing Power Network," in *IEEE Transactions on Network Science and Engineering*, Revise.
6. Weiwei Wang, Wenping Ma, and **Kun Yan**, "FSPPCFs: a privacy-preserving collaborative filtering recommendation scheme based on fuzzy C-means and Shapley value," in *Complex & Intelligent Systems*, vol. 11, p. 107, Jan. 2025. (IF=5)
7. Weiwei Wang, Wenping Ma, and **Kun Yan**, "Trust-aware privacy-preserving QoS prediction with graph neural collaborative filtering for internet of things services," in *Complex & Intelligent Systems*, vol. 11, p. 191, Feb. 2025. (IF=5)
8. Weiwei Wang, Wenping Ma, and **Kun Yan**, "TEPP: A Robust Trust-Enhanced Privacy-Preserving Quality of Service Prediction Method for Web Service Recommendation," in *Expert Systems With Applications*, Volume 294, p. 128786, Dec. 2025. (IF=7.5)

PROJECTS	Research on Key Technologies for Mobile Communication Network Security <i>Datang Mobile Communications Equipment Co., Ltd</i> Nov. 2021 - Oct. 2024
	<ul style="list-style-type: none"> • Security Threats and Requirements in 6G Networks • Applications of Blockchain in 6G Security • Applications of Blockchain and Artificial Intelligence in 6G Resource Management
	Research on Security Collaborative Defense Technology for Wind Power Internet Intelligent Manufacturing <i>Shaanxi Provincial Science and the Technology Department</i> Jan. 2022 - Dec. 2024
	<ul style="list-style-type: none"> • Security, Trust, and Privacy Protection of Data in Distributed Networks • Blockchain-Based Distributed Information Sharing
TEACHING EXPERIENCE	Teaching Assistant in Modern Cryptography <i>School of Telecommunications Engineering, Xidian University</i> Jun. 2022
	<ul style="list-style-type: none"> • Introducing the research and application of blockchain
	Teaching Assistant in Random Signal Analysis and Applications <i>School of Telecommunications Engineering, Xidian University</i> May. 2024
	<ul style="list-style-type: none"> • Introducing spectrum sharing and management methods based on artificial intelligence, blockchain and other technologies
RESEARCH EXPERIENCE	Supervision of Undergraduate and Master's Theses <i>School of Telecommunications Engineering, Xidian University</i> Nov. 2021 - Jun. 2024
	<ul style="list-style-type: none"> • Guiding undergraduate and master's students in blockchain-related research and supervising their thesis work based on this research.
	Research Assistant in Exploration of 6G Networks and Blockchain Technology <i>Datang Mobile Communications Equipment Co., Ltd</i> Apr. 2023 - Oct. 2024
	<ul style="list-style-type: none"> • Research on distributed service security in 6G networks and blockchain-based network management.
AWARDS AND HONORS	National Scholarship <i>Ministry of Education of the People's Republic of China</i> Nov. 2024
	Excellent Graduate Student <i>Xidian University</i> Nov. 2024
	First Prize Academic Scholarship <i>Xidian University</i> Oct. 2023
	Third Prize of the First National Cryptography Contest <i>Chinese Association for Cryptologic Research</i> Aug. 2022
SKILLS	Languages: Chinese, English. Programming: Golang, C++, MATLAB, Python.

Reviewers for: *IEEE Transactions on Industrial Informatics,*
IEEE Transactions on Network Science and Engineering,
IEEE Transactions on Network and Service Management,
IEEE Transactions on Computational Social Systems,
IEEE Internet of Things Journal,
IEEE Communications Letters,
IEEE Consumer Electronics Magazine,
IEEE Access,
ACM Transactions on Sensor Networks,
Computer Networks,
Vehicular Communications,
Journal of Network and Computer Applications,
Applied Intelligence,
Complex & Intelligent Systems,
Journal of Cloud Computing: Advances, Systems and Applications.