

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.
GRANT PROPOSAL EXPERIENCE	National Natural Science Foundation of China Mar. 2022 - Mar. 2025
	<ul style="list-style-type: none"> • Authored the main body of the proposal, formulating its research content, technical framework, and key innovations.
	National Key Research and Development Program of China Sep. 2021 - Aug. 2023
	<ul style="list-style-type: none"> • Authored a key research section of the proposal, responsible for its background analysis, research content, and implementation plan.
	Open Found of State Key Laboratory Jun. 2024 - Aug. 2024
	<ul style="list-style-type: none"> • Authored the core technical scheme and primary innovation points for the research proposal.
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	<p>Languages: Chinese, English.</p> <p>Programming: Go, C++, MATLAB, Python.</p>
ACADEMIC SERVICES	<p>Reviewers for: <i>IEEE Transactions on Industrial Informatics,</i> <i>IEEE Transactions on Network Science and Engineering,</i> <i>IEEE Transactions on Network and Service Management,</i> <i>IEEE Transactions on Computational Social Systems,</i> <i>IEEE Internet of Things Journal,</i> <i>IEEE Communications Letters,</i> <i>IEEE Consumer Electronics Magazine,</i> <i>IEEE Access,</i> <i>ACM Transactions on Sensor Networks,</i> <i>Computer Networks,</i> <i>Vehicular Communications,</i> <i>Journal of Network and Computer Applications,</i> <i>Applied Intelligence,</i> <i>Complex & Intelligent Systems,</i> <i>Journal of Cloud Computing: Advances, Systems and Applications.</i></p>