

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