Zhonghui Li

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ⓘ Bio

I received my bachelor's degree in software engineering from the School of Information and Software Engineering, University of Electronic Science and Technology of China, in 2018, and received my doctor's degree in cyberspace security from the School of Cyber Science and Technology, University of Science and Technology of China (USTC), in 2023,. I am currently a Post-Doctoral researcher with the School of Cyber Science and Technology, USTC. My current research interests include quantum internet architecture, quantum networking, and network security.

🎓 Education

University of Science and Technology of China, Anhui, China   2018.09 – 2023.06
School of Cyber Science and Technology
Ph.D. in Cyberspace Security

University of Electronic Science and Technology of China, Sichuan, China   2014.09 – 2018.06
School of Information and Software Engineering
Master student in Software Engineering

👥 Experience

School of Cyber Science and Technology (USTC) Anhui, China   2023.07 – Present
PostDoctoral Researcher   Advised by Prof. Nenghai Yu

⚙ Research Interests

- Quantum Networking
- Network Security

📖 Selected Publications

- Zhonghui Li, Kaiping Xue*, Jian Li, Nenghai Yu, Jianqing Liu, David S. L. Wei, Qibin Sun, Jun Lu, Building a Large-Scale and Wide-Area Quantum Internet Based on an OSI-alike Model. *China Communications*, vol. 18, no. 10, 2021.
- Zhonghui Li, Kaiping Xue*, Jian Li, Nenghai Yu, David S. L. Wei, Ruidong Li, Connection-oriented and Connectionless Remote Entanglement Distribution Strategies in Quantum Networks. *IEEE Network*, vol. 36, no. 6, 2022.
- Zhonghui Li, Kaiping Xue*, Jian Li, Lutong Chen, Ruidong Li, Zhaoying Wang, Nenghai Yu, David S. L. Wei, Qibin Sun, Jun Lu, Entanglement-Assisted Quantum Networks: Mechanics, Enabling Technologies, Challenges, and Research Directions. *IEEE Communications Surveys and Tutorials*, 2023, Accepted.

⚙ Selected Patents

- A key synchronization method between quantum key distribution network nodes. ZL2023115892161.1, 4/5.
- A distributed routing method and system for load balancing in quantum key distribution network. ZL2024100232712.1, 4/7.

♡ Honors and Awards

* The Seventh China Association for Science and Technology Outstanding Scientific and Technological Paper Award   2022.09