Jian Qu

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Education

Xi'an Jiaotong University, Xian, China 2021 – Present
Ph.D, School of Computer Science and Technology, Anticipated Graduation Date: 2025

Xi'an Jiaotong University, Xian, China 2019 – 2021
M.S., School of Cyber Science and Engineering

Xi'an Jiaotong University, Xian, China 2013 – 2019
B.S., School of Computer Science and Technology (The Honors Youth Program)

Publications

- [1] Ma, X., Qu, J., Li, J., Lui, J. C., Li, Z., & Guan, X. (2020). Pinpointing Hidden IoT Devices via Spatial-temporal Traffic Fingerprinting. In IEEE INFOCOM 2020-IEEE Conference on Computer Communications (pp. 894-903). IEEE, 2020. (Published, CCF A)
- [2] Ma, X., Qu, J., Chen, F., Liu, W., Li, J., Tao, J., ... & Zhang, Z. L. (2021). One Host with So Many IPs! On The Security Implications of Dynamic Virtual Private Servers. IEEE Communications Magazine, 59(2), 64-69, 2021. (Published, JCR Q1)
- [3] Ma, X., Qu, J., Li, J., Lui, J. C., Li, Z., Liu, X., & Guan, X. (2021) Inferring Hidden IoT Devices and User Interactions via Spatial-temporal Traffic Fingerprinting. IEEE/ACM Transactions on Networking. (Published, JCR Q1)
- [4] Qu, J., Ma, X., Liu, W. (2021). Querent-centric Domain Name System Modeling and Its Application in Passive Software Discovery. In 2021 8th International Conference on Dependable Systems and Their Applications (DSA). (Published, EI)
- [5] Wang, X., Ma, X., & Qu, J. (2021). A Link Flooding Attack Detection Method based on Non-Cooperative Active Measurement. In 2021 8th International Conference on Dependable Systems and Their Applications (DSA). (Published, EI)
- [6] Qu, J., Ma, X., Liu, W., Sang, H., Li, J., Xue, L., ... & Guan, X. (2022) Landing Reinforcement Learning onto Smart Scanning of The Internet of Things. In IEEE INFOCOM 2022-IEEE Conference on Computer Communications. (Accepted, CCF A)

Chinese Patents

- Granted: A fingerprinting method of IoT devices based on spontaneous traffic. ZL201911404458.2
- Granted: A sequence feature extraction method for fingerprinting IoT devices. ZL201911385226.7
- Published: Method,system and computer-readable storage medium for multi sequence matching. 2021104373114
- Published: Method,system and computer-readable storage medium for detecting reverse proxy. 2021104835289

Awards and Achievements

- *The Second Prize*, the 18th China Post-Graduate Mathematical Contest in Modeling 2021
- The First Prize Scholarship, Outstanding Graduate 2020
- The Second Prize Scholarship 2019
- The Third Prize Scholarship 2018
- *Provincial first prize*, China Undergraduate Mathematical Contest in Modeling 2017
- SiYuan Scholarship 2017

Projects & Experience

Scheduling of active IOT devices scanning in IPv4 space. 08/2021 – 12/2022
Project Leader Ph.D Basal Research Fund

The technology and system for fingerprinting IoT devices. 01/2020 – 07/2022
Major Participant School enterprise cooperation project