Minmei Wang

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University of California, Santa Cruz, USA mwang107@ucsc.edu

Research Interests

Internet of Things, network security

Education

09/2017 - now **University of California, Santa Cruz**, USA
Ph.D. in Computer Science and Engineering
Advisor: Chen Qian

09/2014 - 06/2017 **Nanjing University**, China
Master in Computer Science and Technology
Advisor: Yihua Huang

09/2010 - 06/2014 **Nanjing University of Posts and Telecommunications**, China
B.E. in Computer Science,
Advisor: Long Hong (Excellent graduation thesis)

Conference Publications

1. **Minmei Wang**, Mingxun Zhou, Shouqian Shi, and Chen Qian. Vacuum Filters: More Space-Efficient and Faster Replacement for Bloom and Cuckoo Filters, under revision to *Proceedings of the International Conference on Very Large Data Bases (VLDB)*, 2020.
2. [**INFOCOM**] **Minmei Wang**, Chen Qian, Xin Li and Shouqian Shi, Collaborative Validation of Public-Key Certificates for IoT by Distributed Caching, in *Proceedings of IEEE International Conference on Computer Communications (INFOCOM)*, 2019.
3. [**ICNP**] Xiaofeng Shi, **Minmei Wang**, Ge Wang, Baiwen Huang, Haofan Cai, Junjie Xie, and Chen Qian, TagAttention: Mobile Object Tracing without Object Appearance Information by Vision-RFID Fusion, in *Proceedings of IEEE International Conference on Network Protocols (ICNP)*, 2019.
4. [**ICNP**] Shouqian Shi, Chen Qian, and **Minmei Wang**, Re-designing Compact-structure based Forwarding for Programmable Networks, in *Proceedings of IEEE International Conference on Network Protocols (ICNP)*, 2019.
5. [**INFOCOM**] Junjie Xie, Chen Qian, Deke Guo, **Minmei Wang**, Shouqian Shi, and Honghui Chen, Efficient Indexing Mechanism for Unstructured Data Sharing Systems in Edge Computing in *Proceedings of IEEE International Conference on Computer Communications (INFOCOM)*, 2019.
6. [**IoTDI**] Xin Li, **Minmei Wang**, Shouqian Shi, and Chen Qian, VERID: Towards Verifiable IoT Data Management, in *Proceedings of ACM/IEEE International Conference on Internet of Things Design and Implementation (IoTDI)*, 2019.
7. [**ICNP**] Haofan Cai, Ge Wang, Xiaofeng Shi, Junjie Xie, **Minmei Wang**, and Chen Qian, When Tags 'Read' Each Other: Enabling Low-cost and Convenient Tag Mutual Identification, in *Proceedings of IEEE International Conference on Network Protocols (ICNP)*, 2019.

Journal Publications

1. [**ToN**] Xin Li, **Minmei Wang**, Huazhe Wang, Ye Yu, and Chen Qian, Towards Secure and Efficient Communication for the Internet of Things, accepted by *IEEE Transactions on Networking (ToN)*.

Workshop/Poster Publications

1. [**Tapia**] Ge Wang, Haofan Cai, **Minmei Wang**, Chen Qian, and Jinsong Han, Poster: Replay-resilient Physical-layer Authentication for Battery-free IoT Devices, accepted by *Proceedings of ACM Richard Tapia Celebration of Diversity in Computing (Tapia)*, 2018.

Honors and Awards

- Finallists of UCSC Grad Slam 2019
- Student Travel Award of IEEE INFOCOM, 2019
- Enterprise Individual Award-Excellence Award on the sentiment analysis task for Big Data & Computing Intelligence Contest, China, 2016
- 10th in the 1002 team in 2016 BYTECUP International Machine Learning Competition, China, 2016
- 2nd Prize for Graduate Academic Scholarship for each year, Nanjing University Sept. 2014-June 2017
- 1st Prize (top 3) School Scholarship, Nanjing University of Post & Telecommunications Sept. 2012-June 2013
- 2nd Prize (top 10) School Scholarship for each year, Nanjing U. of Post & Telecommunications Sept.2010-June 2012

Talks & Presentations

1. **Efficient and secure communication for the Internet of Things (IoT)**, UCSC Grad Slam 2019;
2. **Collaborative Validation of Public-Key Certificates for IoT by Distributed Caching**, on IEEE INFOCOM conference, Paris, France, 2019;
3. **Efficient Indexing Mechanism for Unstructured Data Sharing Systems in Edge Computing**, on IEEE INFOCOM conference, Paris, France, 2019.

Teaching Experience

Teaching Assistant, CMPE150: Introduction to Computer Networks, UC Santa Cruz, Winter 2018.