JIADONG LOU

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SUMMARY

I am a Ph.D. student at the Department of Computer & Information Sciences University of Delaware, Newark, DE, USA. My advisor is Dr. Xu Yuan. I received the B.S. degree from School of Computer Science and Technology, Harbin Institute of Technology, in 2018. My research interests include networking optimization and cybersecurity.

EDUCATION

University of Delaware, Newark, DE
Ph.D. candidate in Computer Science

University of Louisiana at Lafayette, Lafayette, LA
M.S. in Computer Science

Harbin Institute of Technology, Harbin, China
B.S. in Internet of Things

RESEARCH INTERESTS

- Cybersecurity (e.g., mobile applications analysis, membership inference on ML models)
- Networking optimization (e.g., age of information)

AWARDS

- IEEE/IFIP DSN 2023, Best Paper Award
- IEEE/IFIP DSN 2023, Distinguished Paper Award
- IEEE INFOCOM 2020, Student Conference Award

CONFERENCE PUBLICATIONS

- **Jiadong Lou**, Xu Yuan, Li Chen, Miao Pan, and Nian-Feng Tzeng, "Membership Inference via Self-Comparison", *Ready for submission*

- **Jiadong Lou**, Xu Yuan, Xingliang Yuan, Neil Zhenqiang Gong, and Nian-Feng Tzeng, "GRID: Protecting Training Graph from Link Stealing Attacks on GNN Models", *Ready for submission*

- **Jiadong Lou**, Xu Yuan, Li Chen, Miao Pan, and Nian-Feng Tzeng, "Beacon Attack: Membership Inference via Beacon Data Injection", *Ready for submission*

- **Jiadong Lou**, Xu Yuan, and Ning Zhang, "Devils in Your Apps: Vulnerabilities and User Privacy Exposure in Mobile Notification Systems," in Proc. of Anual IEEE/IFIP International Conference on Dependable Systems and Network (**DSN**), 2023. ***A Rank conference*** (**Best Paper Award**)

- **Jiadong Lou**, Xu Yuan, Miao Pan, Hao Wang, and Nian-Feng Tzeng, "Data Privacy Examination against Semi-Supervised Learning," in Proc. of ACM ASIA Conference on Computer and Communications Security (**AsiaCCS**), 2023. ***A Rank conference***

- **Jiadong Lou**, Xu Yuan, Ning Zhang, "Messy States of Wiring: Vulnerabilities in Emerging Personal Payment Systems" in Proc. of USENIX Security Symposium (**Usenix Security**), 2021. ***A* Rank conference***

- Yihe Zhang, Xu Yuan, Jin Li, **Jiadong Lou**, Li Chen, and Nian-Feng Tzeng. "Reverse Attack: Black-box Attacks on Collaborative Recommendation." in Proc. of ACM SIGSAC Conference on Computer and Communications Security (**CCS**), 2021. ***A* Rank conference***

- **Jiadong Lou**, Xu Yuan, Sastry Kompella, and Nian-Feng Tzeng. "AoI and throughput tradeoffs in routing-aware multi-hop wireless networks," in Proc. of IEEE International Conference on Computer Communication (**INFOCOM**), 2020. ***A* Rank conference***

- **Jiadong Lou**, Xu Yuan, Nian-Feng Tzeng, "Instant AoI optimization in IoT networks with packet combination," in Proc. of IEEE International Conference on Sensing, Communication, and Networking (**SECON**), 2020. ***B Rank conference***

- Yihe Zhang, **Jiadong Lou**, Li Chen, Xu Yuan, Jin Li, Tom Johnsten, and Nian-Feng Tzeng. "Towards poisoning the neural collaborative filtering-based recommender systems." In Proc. of European Symposium on Research in Computer Security (**ESORICS**), 2020. ***A Rank conference***

JOURNAL PUBLICATIONS

- **Jiadong Lou**, Yihe Zhang, Xiaoqi Qin, Xu Yuan, and Nian-Feng Tzeng, "Toward instant AoI optimization in IoT networks with packet aggregation," IEEE Transactions on Network Science and Engineering (**TNSE**), *under review*

- **Jiadong Lou**, Xu Yuan, Sastry Kompella, Nian-Feng Tzeng, "Boosting or hindering: AoI and throughput interrelation in routing-aware multi-hop wireless networks," IEEE/ACM Transactions on Networking (**ToN**), 2021. ***A* Rank Journal***

- **Jiadong Lou**, Xu Yuan, Purushottam Sigdel, Xiaoqi Qin, Sastry Kompella, Nian-Feng Tzeng, "Age of information optimization in multi-channel based multi-hop wireless networks," IEEE Transactions on Mobile Computing (**TMC**), 2022. ***A* Rank Journal***

- Jie Lian, **Jiadong Lou**, Li Chen, and Xu Yuan. "Echospot: Spotting your locations via acoustic sensing." in Proc. of ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**Ubicomp/IMWUT**), pp. 1-21, 2021. ***A* Rank Journal***

SERVICES

Journal Reviews	**14**
• IEEE Transaction on Mobile Computing	5
• IEEE Internet of Things Journal	3
• IEEE Communications Letters	1
• IEEE Transactions on Vehicular Technology	1
• IEEE Transactions on Network Science and Engineering	1
• Security and Communication Networks & Networks	2
• Computers & Security	1

Student Volunteer	May 2–5, 2022
The 41st IEEE International Conference on Computer Communications (INFOCOM)	*Online Conference*

Teaching Assistant	2019 - 2023
University of Louisiana at Lafayette	*Lafayette, LA*

- 2023 Summer Tutorial: Machine Learning: Applications and Practices, and Introduction to Meteorology

- Programming Languages

- Principle of Operating System Theory

- Computer Communication & Networks

- Principles of Computer Architecture