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Zhibo Liu

PhD Student

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I am currently a PhD year 4 student at Department of Computer Science and Engineering, Hong Kong University of Science and Technology, supervised by Prof. Shuai Wang.
Before joining HKUST, I received my B.Eng. degree from Nankai University, Tianjin, China in 2019.
My research currently focuses on **Reverse Engineering**, my research interests include **Computer Security** and **Software Engineering**.

Education

Ph.D., Hong Kong University of Science and Technology **09 2019 — now**
Bachelor of Engineering, Nankai University **09 2015 — 06 2019**

Publications

1. Liu, Z., Yuan, Y., Wang, S., Xie, X. & Ma, L. *Decompiling x86 Deep Neural Network Executables* in *USENIX Security (To appear)* (2023).
2. Jiang, K., Bao, Y., Wang, S., Liu, Z. & Zhang, T. *Cache Refinement Type for Side-channel Detection of Cryptographic Software* in *CCS (To appear)* (2022).
3. Liu, Z., Yuan, Y., Wang, S. & Bao, Y. *SoK: Demystifying Binary Lifters Through the Lens of Downstream Applications* in *2022 IEEE Symposium on Security and Privacy (SP)(SP). IEEE Computer Society, Los Alamitos, CA, USA* (2022), 453–472.
4. Xiao, D., LIU, Z., Yuan, Y., Pang, Q. & Wang, S. Metamorphic Testing of Deep Learning Compilers. *Proceedings of the ACM on Measurement and Analysis of Computing Systems* **6,** 1–28 (2022).
5. Ma, P., Liu, Z., Yuan, Y. & Wang, S. NeuralD: Detecting Indistinguishability Violations of Oblivious RAM with Neural Distinguishers. *IEEE Transactions on Information Forensics and Security* (2022).
6. Wang, H. *et al.* Enhancing DNN-Based Binary Code Function Search With Low-Cost Equivalence Checking. *IEEE Transactions on Software Engineering* (2022).
7. Liu, Z. & Wang, S. *How Far We Have Come: Testing Decompilation Correctness of C Decompilers* in *Proceedings of the 29th ACM SIGSOFT International Symposium on Software Testing and Analysis* (Association for Computing Machinery, Virtual Event, USA, 2020), 475–487. ISBN: 9781450380089. https://doi.org/10.1145/3395363.3397370.

Awards & Honors

2022 HKUST Research Travel Grant
2022 HKUST RedBird Academic Excellence Award (20,000 HKD)
2019 China National Cyber Security Scholarship (30,000 CNY)
2019 Chain National College Information Security Contest (CISCN CTF Contest), group second class prize
2018 CISCN CTF Contest, group second class prize
2017 ACM/ICPC Asia Regional Urumqi Site Bronze Medal

Professional Service

USENIX Security	2023	External reviewer
IEEE S&P	2023	External reviewer
NeurIPS	2022	External reviewer
ASE	2022	External reviewer
ISSTA	2022	Artifact Evaluation-track, Committee Member
ATC	2022	Artifact Evaluation Committee
OSDI	2022	Artifact Evaluation Committee
WiSec	2022	Artifact Evaluation track, program committee
NDSS BAR workshop	2022	External reviewer
CCS	2022	External reviewer
ASIACCS	2022	External reviewer
ICICS	2020	External reviewer
TIFS	2020	External reviewer
ICSE	2020	Artifact Evaluation track, external reviewer
ICSE SEIP track	2020	External reviewer
ICICS	2019	External reviewer
SOSP	2019	Artifact Evaluation track, external reviewer

Technical Skills

Other Skills	Reverse Engineering, Vulnerability Exploitation
Programming/Scripting	Python, Java, C/C++, Assembly