

LI Tsz On (John)

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EDUCATION

The University of Hong Kong (HKU)	Hong Kong
M.Phil. in Computer Science	Sep 2019 - Aug 2021
Research focus: Artificial Intelligence, Big Data, Cyber Security	
Bachelor of Science	Sep 2014 - Aug 2019
Major in Risk Management and Computer Science	
The Hong Kong University of Science and Technology (HKUST)	Hong Kong
Ph.D. in Computer Science	Sep 2021 - (Aug 2024)
Research focus: Artificial Intelligence, Software Engineering, Big-data System	

WORK & RESEARCH EXPERIENCES

Theory Lab, HUAWEI	Hong Kong
<i>External Researcher</i>	Sep 2019 - Aug 2021
Designed two AI systems for HUAWEI CLOUD	
My works were incorporated into HUAWEI's Federated Learning products	
System Group, Department of Computer Science, HKU	Hong Kong
<i>Research Assistant</i>	June 2017 - Aug 2021
Designed and implemented six software for AI/Big-data/Cloud Computing/Cyber Security	
Co-authored six papers and two patents (commercialized by HUAWEI CLOUD)	

PUBLICATIONS

- Tsz On Li, Jianyu Jiang, Ji Qi, Chi Chiu So, Jiacheng Ma, Xusheng Chen, Tianxiang Shen, Heming Cui, Yuexuan Wang, and Peng Wang, UPA: An Automated, Accurate and Efficient Differentially Private Big-data Mining System, Proceedings of the 50th IEEE/IFIP International Conference on Dependable Systems and Networks
- Chi Chiu So, Tsz On Li, Chufang Wu, Siu Pang Yung, Differential Spectral Normalization (DSN) for PDE Discovery, Proceedings of the AAAI Conference on Artificial Intelligence, Accepted
- Weiwei Jia, Jianchen Shan, Tsz On Li, Heming Cui, and Xiaoning Ding, vSMT-IO: Improving I/O Performance and Efficiency on SMT Processors in Virtualized Clouds, Proceedings of the 2020 USENIX Annual Technical Conference
- Jianyu Jiang, Xusheng Chen, Tsz On Li, Cheng Wang, Tianxiang Shen, Shixiong Zhao, Heming Cui, Cho-Li Wang, and Fengwei Zhang, Uranus: Simple, Efficient SGX Programming and Its Applications, Proceedings of the 15th ACM ASIA Conference on Computer and Communications Security
- Jiewen Hai, Cheng Wang, Xusheng Chen, Tsz On Li, Heming Cui, Sen Wang, Fulva: Efficient Live Migration for In-memory Key-Value Stores with Zero Downtime, Proceedings of the 38th IEEE International Symposium on Reliable Distributed Systems 2019
- Shixiong Zhao, Rui Gu, Haoran Qiu, Tsz On Li, Yuexuan Wang, Heming Cui, Junfeng Yang, OWL: Understanding and Detecting Concurrency Attacks, Proceedings of the 48th IEEE/IFIP International Conference on Dependable Systems and Networks 2018

PATENTS

- Tsz On Li, Jianyu Jiang, Ji Qi, Chi Chiu So, Heming Cui, Sen Wang, Peng Wang, Gong Zhang, An Automated, Accurate and Efficient Differentially Private Big-data Mining System, transferred to HUAWEI and awarded "High Potential Value Patent" title (Ref. num: 202010506698.X)
- Jianyu Jiang, Xusheng Chen, Tsz On Li, Cheng Wang, Heming Cui, Sen Wang, Peng Wang, Gong Zhang, An Efficient Big-data Processing Runtime Environment Based On Trusted Execution Environment, transferred to HUAWEI and awarded "High Potential Value Patent" title (Ref. num: 202010366539.4)