

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

WORK & RESEARCH EXPERIENCES

Theory Lab, HUAWEI

Hong Kong

External Researcher

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

Research Assistant

June 2017 - Aug 2021

Designed and implemented six software for AI/Big-data/Cloud Computing/Cyber Security

Co-authored five 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

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)