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The Chinese University of Hong Kong · Ph.D Candidate

Computer Science and Engineering, Supervisor: Prof. Patrick P. C. Lee

University of Electronic Science and Technology of China · Master

Computer Science and Engineering, Supervisor: Prof. Jingwei Li

University of Electronic Science and Technology of China · Bachelor

Information Security

Hong Kong, China

2022.06 - now

Chenadu, China

2019.09 - 2022.06

Chengdu, China

2015.09 - 2019.06

Research Interests and Achievements

Research Interests

- Data reduction techniques for storage systems: deduplication, loss-less compression.
- Key-value stores: LSM-tree performance optimization, distributed key-value stores.
- Secure storage systems: secure deduplication, access control, and confidential computing.

Summary of Research Achievements

- Publications: 9 CCF-A papers (2 as first author) and 2 CCF-B papers.
- Citations: 160+ total citations with an h-index of 6.
- Patents: 4 granted patents in the field of secure storage systems.

SGX-Enabled Encrypted Cross-Cloud Data Synchronization

Publication

Jia Zhao, Yanjing Ren, Jingwei Li, and Patrick P. C. Lee.	2025
Enhancing LSM-tree Key-Value Stores for Read-Modify-Writes via Key-Delta Separation Jinhong Li, Yanjing Ren, Shujie Han, and Patrick P. C. Lee.	IEEE ICDE 2024
ELECT: Enabling Erasure Coding Tiering for LSM-tree-based Storage Yanjing Ren, Yuanming Ren, Xiaolu Li, Yuchong Hu, Jingwei Li, and Patrick P. C. Lee.	USENIX FAST 2024
CDCache: Space-Efficient Flash Caching via Compression-before-Deduplication Hengying Xiao, Jingwei Li, Yanjing Ren, Ruijin Wang, Xiaosong Zhang.	IEEE INFOCOM 2024
FeatureSpy: Detecting Learning-Content Attacks via Feature Inspection in Secure	IEEE INFOCOM

Deduplicated Storage

Jingwei Li, Yanjing Ren, Patrick P. C. Lee, Yuyu Wang, Ting Chen, Xiaosong Zhang.

Revisiting Frequency Analysis against Encrypted Deduplication via Statistical IEEE INFOCOM Distribution

Jingwei Li, Guoli Wei, Jiacheng, Liang, Yanjing Ren, Patrick P. C. Lee and Xiaosong Zhang.

Tunable Encrypted Deduplication with Attack Resilient Key Management ACM Transactions on Storage 2022

Zuoru Yang, Jingwei Li, Yanjing Ren, Patrick P. C. Lee and Xiaosong Zhang.

Enabling Secure and Space Efficient Metadata Management in Encrypted Deduplication

Jingwei Li, Suyu Huang, Yanjing Ren, Patrick P. C. Lee and Xiaosong Zhang.

Accelerating Encrypted Deduplication via SGX

Yanjing Ren, Jingwei Li, Zuoru Yang, Patrick P. C. Lee and Xiaosong Zhang.

Balancing storage efficiency and data confidentiality with tunable encrypted deduplication

Jingwei Li, Zuoru Yang, Yanjing Ren, Patrick P. C. Lee and Xiaosong Zhang.

IEEE Transactions on Computers

USFNIX ATC.

IEEE ICDCS

ACM EuroSys

2022

2021

2023

2022

2020

Metadedup: Deduplicating metadata in encrypted deduplication via indirection
Jingwei Li, Patrick P. C. Lee, Yanjing Ren, and Xiaosong Zhang.

IEEE MSST 2019

Patent _____

A distributed ciphertext shared key management method and system based on encrypted data deduplication	CN112152798B[P]
Jingwei Li, Suyu Huang, Yanjing Ren, Zuoru Yang, Patrick P. C. Lee.	2023.10.03
An efficient encryption deduplication method based on hardware security zone Jingwei Li, Yanjing Ren, Yang Zuoru, Patrick P. C. Lee, Xiaosong Zhang.	CN112947855B[P] 2022.10.14
An Adjustable Encryption Deduplication Method Jingwei Li, Zuoru Yang, <u>Yanjing Ren</u> , Patrick P. C. Lee, Xiaosong Zhang.	CN111338572B[P] 2021.09.14
An efficient metadata management method in an encrypted deduplication system Jingwei Li, Patrick P. C. Lee, Yanjing Ren, Xiaosong Zhang.	CN110109617B[P] 2020.05.12
Honor	
Outstanding Graduate Paper Award (ACM Chengdu Chapter)	2023
Outstanding Master's Thesis of UESTC (UESTC)	2022
Outstanding University Graduates (Sichuan Province, China)	2022
China Integrated Circuit Innovation and Entrepreneurship Competition (Third Award)	2020
Excellent graduation thesis of UESTC (UESTC)	2019
Outstanding Graduates of UESTC (UESTC)	2019
ASC Student Supercomputer Challenge (Second Prize)	2019
ASC Student Supercomputer Challenge (Second Prize)	2018
Mathematical Contest in Modeling (Meritorious Winner) China Undergraduate Mathematical Contest in Modeling (First Prize)	2017 2017