

Joontaek Oh

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AREAS OF INTERESTS

Operating System, Storage System, Filesystem, DataBase Management System, Mobile Embedded System

EDUCATION

Ph.D student , Department of Electrical Engineering Korea Advanced Institute of Science and Technologies	2020 -
Ph. D student , Department of Computer Software Hanyang University	2018 - 2020 (Dropped out)
MS , Department of Computer Software Hanyang University	2016 - 2018
BS , Department of Information Security Engineering The Korean Academic Credit Bank System	2013 - 2015

PUBLICATIONS

1. [USENIX FAST] Joontaek Oh, Seung Won Yoo, Hojin Nam, Changwoo Min and Youjip Won, "CJFS : Concurrent Journaling for Better Scalability", In Proc. of USENIX Conference on File and Storage Technologies (FAST) 2023, Feb, 20-23, 2022
2. [USENIX ATC] Juwon Kim, Minsu Jang, Danish Muhammad Teeshen, Joontaek Oh, and Youjip Won "IPLFS: Log-Structured File System without Garbage Collection", In Proc. of USENIX Annual Technical Conference (ATC) 2022, July. 11-13, 2022
3. [ACM SYSTOR] Seung Won Yoo, Joontaek Oh, and Youjip Won "O-AFA: Order Preserving All Flash Array", in Proc. of The ACM International Systems and Storage Conference (SYSTOR), Haifa, Israel, June. 13-15, 2022
4. [USENIX FAST] Dohyun Kim, Kwangwon Min, Joontaek Oh, and Youjip Won "ScaleXFS: Getting scalability of XFS back on the ring", In Proc. of USENIX Conference on File and Storage Technologies (FAST) 2022, Feb, 22-24, 2022
5. [USENIX FAST] Joontaek Oh, Sion Ji, Yongjin Kim, and Youjip Won, "exF2FS: Transaction Support in Log-Structured Filesystem", In Proc. of USENIX Conference on File and Storage Technologies (FAST) 2022, Feb, 22-24, 2022
6. [ICISS] Myeongseon Kim, Joontaek Oh, Youjip won, "Barrier enabled QEMU", In Proc. of ICISS 2019, Tokyo, Japan, Mar. 2019

7. **[IEEE NVMSA]** Joontaek Oh, and Youjip Won. “Embedded DBMS Design for In-Vehicle Information Management.” 2018 IEEE 7th Non-Volatile Memory Systems and Applications Symposium (NVMSA). IEEE, 2018.
 8. **[ACM TOS]** Youjip Won, Joontaek Oh, Jaemin Jung, Gyeongyeol Choi, Seongbae Son, Jooyoung Hwang, Sangyeun Cho “Bringing Order to Chaos: Barrier-Enabled I/O Stack for Flash Storage”, ACM Transactions on Storage (TOS)
 9. **[ACM TOS]** Jinsoo Yoo, Joontaek Oh, Seongjin Lee, Youjip Won, Jin-Yong Ha, Jongsung Lee, Junseok Shim, “OrcFS: Orchestrated File System for Flash Storage”, ACM Transactions on Storage (TOS), Vol. 14, Issue 2, Apr, 2018
 10. **[USENIX FAST]** Youjip Won, Jaemin Jung, Gyeongyeol Choi, Joontaek Oh, Seongbae Son, Jooyoung Hwang, Sangyeun Cho “Barrier Enabled IO Stack for Flash Storage”, in proc. of USENIX Conference on File and Storage Technologies (FAST), Oakland, CA, USA, Feb. 12-15, 2018 (**Awarded Best Paper**)
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AWARDS

- Best Ph.D student, EE Dept., KAIST, 2023
 - Best TA Award, EE Dept., KAIST, 2020
 - Best Paper Award, USENIX FAST 2018
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PROJECTS

- Future Scalable OS (IITP, 2018.6 – 2023.5)
- Scalable IO Stack for future storage system (NRF, 2017.6 - 2020.3)
- System Software for Byte Addressable NVM (KEIT/MOTIE, 2016.3 – 2017.5)
- High-Performance Exabyte Storage Systems (Samsung Electronics, 2022.5 – 2024.5)
- SNU-SKH Solution Research Center (SK Hynix, 2021.9 – 2023.8)