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Publications

○ Wei Zhang, Hyogi Sim, Sangkuen Lee, Suren Byna, Sudharshan S. Vazhkudai, Yong Chen, *Exploiting User Activeness for Data Retention in HPC Systems*, 2021 ACM/IEEE International Conference for High Performance Computing, Networking, Storage and Analysis (SC '21), St. Louis, MO

○ Awais Khan, Hyogi Sim, Sudharshan S. Vazhkudai, Youngjae Kim, *MOSIQS: Persistent Memory Object Storage with Metadata Indexing and Querying for Scientific Computing*, IEEE Access, vol. 9, pp. 85217-85231, 2021

○ Awais Khan, Hyogi Sim, Sudharshan S. Vazhkudai, Ali R. Butt, Youngjae Kim, *An Analysis of System Balance and Architectural Trends Based on Top500 Supercomputers*, In Proceedings of the International Conference on High Performance Computing in Asia-Pacific Region (HPC Asia '21), January 2021

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○ Hyogi Sim, Awais Khan, Sudharshan S. Vazhkudai, *An Analysis of System Balance and Architectural Trends Based on Top500 Supercomputers*, Oak Ridge National Laboratory, ORNL/TM-2020/1561, Aug. 2020

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○ Hyogi Sim, Geoffroy R. Vallée, Youngjae Kim, Sudharshan S. Vazhkudai, Devesh Tiwari, Ali R. Butt, *An Analysis Workflow-Aware Storage System for Multi-Core Active Flash Arrays*, IEEE Transactions on Parallel and Distributed Systems (TPDS), vol. 30, no. 2, pp. 271–285, 2019.

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○ Sangkuen Lee, Hyogi Sim, Sudharshan S. Vazhkudai, *A Programmable Shared-Memory System for an Array of Processing-In-Memory Devices*, Cluster Computing: The Journal of Networks, Software Tools and Applications, 2018

○ Feiyi Wang, Hyogi Sim, Cameron Harr, Sarp Oral, *Diving into Petascale Production File Systems through Large Scale Profiling and Analysis*, In Proceedings of the 2nd Joint International Workshop on Parallel Data Storage & Data Intensive Scalable Computing Systems (PDSW-DISC '17) in conjunction with SC, Denver, CO

○ Hyogi Sim, Youngjae Kim, Sudharshan S. Vazhkudai, Geoffroy R. Vallée, Seung-Hwan Lim, Ali R. Butt, *TagIt: An Integrated Indexing and Search Service for File Systems*, Proceedings of the 2017 ACM/IEEE International Conference for High Performance Computing, Networking, Storage and Analysis (SC '17), Denver, CO

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- Hyogi Sim, *Checkpoint File Systems in HPC*, Seminar in Computing Platform Lab., Samsung Advanced Institute of Technology (SAIT), Online, August 2021
- Hyogi Sim, *Extracting Metadata from the ORNL HPSS Archive to Improve its Usability*, "Knowledge Is Power: Unleashing the Potential of Your Archives through Metadata" BoF in ACM/IEEE International Conference for High Performance Computing, Networking, Storage, and Analysis (SC), Denver, CO, November 2019
- Hyogi Sim, *Making a Peta-Scale Archival Storage System Searchable*, High Performance Storage Systems User Forum 2019 (HUF 2019), Indiana University, Bloomington, IN, October 2019
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