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Detail



Ahn Shin Young

Department Supercomputing System Research Section

Contact syahn@etri.re.kr 1256

KSP Keywords

Memory Integration Real-Time Training Time Virtual Shared Memory Set-By Experimental Test
Data-Intensive Deep Learning Framework Parameter Sharing High-Speed Networks Device Driver
Deep Learning Models Remote Node Cost-Effective Distributed Memory Memory Applications Hpc Cluster
Call Graph Network File System Deep Neural Network(DNN) Distributed Training Single Node
Neural Network Training Page Fault Higher Performance

Articles (42)		Patents (12)	Technology Transfer (1)	R&D Reports (0)	Standards (0)	Monographs/Talk (0)	
Type	Year	Title				Cited	Download
Conference	2025	Supreme-K : Pioneering the HPC Accelerator and System in Korea Yooni Park International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC) 2025, pp.870-875					
Conference	2024	Efficient Data-parallel Distributed DNN Training for Big Dataset under Heterogeneous GPU Cluster Shinyoung Ahn International Conference on Big Data (Big Data) 2024, pp.179-188				0	
Conference	2024	MPI Allgather Utilizing CXL Shared Memory Pool in Multi-Node Computing Systems Hooyoung Ahn International Conference on Big Data (Big Data) 2024, pp.1-6				0	
Conference	2024	OMB-CXL: A Micro-Benchmark Suite for Evaluating MPI Communication Utilizing Compute Express Link Memory Devices Ta-Tien Practice and Experience in Advanced Research Computing (PEARC) 2024, pp.1-8				1	
Conference	2024	EDDIS: Accelerating Distributed Data-Parallel DNN Training for Heterogeneous GPU Cluster Shinyoung Ahn International Parallel and Distributed Processing Symposium (IPDPS) 2024, pp.1167-1168				0	
Conference	2023	Developing a Device Driver Emulator to Provide an Environment for Accelerator Design Validation and S/W Development 임은지 한국소프트웨어 종합 학술 대회 2023, pp.4-6					
Conference	2023	Parallel Tasks Offloading Technology for Computing Accelerator in Supreme-K Supercomputer 임은지 한국통신학회 종합 학술 발표회 (추진) 2023, pp.1-2					
Conference	2023	A device driver for the AB21 SoC in Supreme-K system Youngho Kim International Conference on Information and Communication Technology Convergence (ICTC) 2023, pp.1781-1784				0	
Conference	2023	The Development of SoC Device Driver, Library and Tools for Supreme-K Supercomputer 강영호 대한전자공학회 학술 대회 (추진) 2023, pp.2713-2715					
Conference	2023	Distributed DNN Training Platform for Heterogenous GPU Cluster 안산영 대한전자공학회 학술 대회 (추진) 2023, pp.2694-2697					
Conference	2022	Design of the scheduler of accelerator device driver supporting OpenCL application for heterogeneous accelerator in Supreme-K system Youngho Kim International Conference on Internet (ICON) 2022, pp.297-299					
Conference	2022	Device Driver Emulator for Parallel Computing Accelerator Simulator supporting OpenCL Eun-Ji Lim International Conference on Information and Communication Technology Convergence (ICTC) 2022, pp.2352-2355				0	
Conference	2022	Design of Device Driver for Accelerator of Massively Parallel Processor for Supercomputer supporting OpenCL 임은지 대한전자공학회 학술 대회 (추진) 2022, pp.2648-2650					
Conference	2021	Deep Learning Framework using Scalable Shared Memory Buffer Framework Eun-Ji Lim International Conference on Electronics, Information and Communication (ICEIC) 2021, pp.542-544				0	
Journal	2020	SoftMemoryBox II: A Scalable, Shared Memory Buffer Framework for Accelerating Distributed Training of Large-Scale Deep Neural Networks Shinyoung Ahn IEEE Access, v.8, pp.207097-207111				4	
Conference	2019	Deep Learning Model Validation Method based on the Shared Memory in Distributed High Performance Computing Eun-Ji Lim International Conference on Internet (ICON) 2019, pp.384-385					
Conference	2019	DL-dashboard Yooni Park International Conference on Intelligent User Interfaces (IUI) 2019, pp.73-74				0	
Conference	2018	Distributed Deep Learning Framework based on Shared Memory for Fast Deep Neural Network Training Eun-Ji Lim International Conference on Information and Communication Technology Convergence (ICTC) 2018, pp.1239-1242				13	
Journal	2018	Deep Learning Model Parallelism 박유미 전자통신동향분석, v.33, no.4, pp.1-13					
Conference	2018	ShmCaffe: A Distributed Deep Learning Platform with Shared Memory Buffer for HPC Architecture Shinyoung Ahn International Conference on Distributed Computing Systems (ICDCS) 2018, pp.1118-1128				22	
Journal	2018	Soft Memory Box: A Virtual Shared Memory Framework for Fast Deep Neural Network Training in Distributed High Performance Computing Shinyoung Ahn IEEE Access, v.6, pp.26493-26504				16	
Conference	2018	A Novel Shared Memory Framework for Distributed Deep Learning in High-Performance Computing Architecture Shinyoung Ahn International Conference on Software Engineering (ICSE) 2018, pp.191-192				10	
Conference	2017	Accelerating Training of DNN in Distributed Machine Learning System with Shared Memory Eun-Ji Lim International Conference on Information and Communication Technology Convergence (ICTC) 2017, pp.1210-1213				7	
Conference	2017	Design of Cache backend using Remote Memory for Network File System Eun-Ji Lim International Conference on High Performance Computing and Simulation (HPCS) 2017, pp.864-869				3	
Conference	2016	Design of Network File System Cache based on the Distributed Memory Eun-Ji Lim International Conference on Cloud-Computing and Super-Computing (CCSC) 2016, pp.450-454					
Journal	2016	Trends on Distributed Frameworks for Deep Learning 안산영 전자통신동향분석, v.31, no.3, pp.131-141					
Conference	2016	Design of Distributed Memory Integration Framework(DMIF) Shinyoung Ahn International Conference on Information Networking (ICIN) 2016, pp.343-347				3	
Conference	2016	A Study on User-level Remote Memory Extension System Shinyoung Ahn International Conference on Advanced Communication Technology (ICACT) 2016, pp.234-239				1	
Conference	2015	A Design of Mapping management of Cache backend using Remote Granted Memory for NFS Young-Ho Kim Asia Pacific International Conference on Information Science and Technology (APIC-IST) 2015, pp.199-202					
Conference	2015	Design and Implementation of User-level Remote Memory Extension Library Shinyoung Ahn International Conference on Advanced Communication Technology (ICACT) 2015, pp.739-744				4	
Conference	2015	DMIF: Distributed Memory Integration Framework for Big-Data Application Gyuil Cha Asia Pacific International Conference on Information Science and Technology (APIC-IST) 2015, pp.207-210					
Conference	2014	Design of Granted Memory Management for Distributed Memory Node with multi-HCAs and Large Capacity Memory Young-Ho Kim International Conference on Internet (ICON) 2014, pp.1-6					
Conference	2014	Exploring Feasibility of User-level Memory Extension to Remote Node Shinyoung Ahn International Conference on Internet (ICON) 2014, pp.1-6					
Conference	2014	Distributed Memory Integration System for High Performance Data Processing Eun-Ji Lim International Conference on Future Web (ICFW) 2014, pp.1-8					
Conference	2014	A Study on Mechanism for Topology-Aware based Granted Memory Management 강영호 한국정보처리학회 학술 발표 대회 (추진) 2014, pp.59-58					
Conference	2014	Distributed Memory Integration System for Memory Cloud Service 임은지 한국통신학회 종합 학술 발표회 (추진) 2014, pp.559-560					
Journal	2014	혈액 세포를 이용한 메모리 가상화 서비스 기술 최규림 정보와 통신 - 한국통신학회지, v.31, no.3, pp.22-31					
Conference	2013	A Workflow for Parallel and Distributed Computing of Large-Scale Genomic Data Hyun-Hea Choi International Conference for Internet Technology and Secured Transactions (ICITST) 2013, pp.215-218				0	
Journal	2013	Workflow-Based Bio Data Analysis System for HPC 안산영 정보처리학회논문지: 소프트웨어 및 데이터 공학, v.2, no.2, pp.97-106					
Conference	2009	A Weighted Call Graph Approach for Finding Relevant Components in Source Code Shin Young Ahn ACS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (AICSP) 2009, pp.539-544				3	
Journal	2008	A Perspective on the Next Generation Computing Industry 안산영 한국정보기술학회지, v.6, no.1, pp.7-13					
Conference	2002	A Study on Ethernet-PPON System functionality for L2/L3 MPLS based VPN service 안산영 한국정보처리학회 학술 발표 대회 (추진) 2002, pp.1003-1006					