

Weimin Zheng

List of Publications by Year in descending order

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132
papers

1,093
citations

777949

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721071

23
g-index

132
all docs

132
docs citations

132
times ranked

1102
citing authors

#	ARTICLE	IF	CITATIONS
1	Garbage collection and data recovery for N2DB. Tsinghua Science and Technology, 2022, 27, 630-641.	4.1	1
2	A review of basic software for brain-inspired computing. CCF Transactions on High Performance Computing, 2022, 4, 34-42.	1.1	2
3	Multi-Clock Snapshot Isolation Concurrency Control for NVM Database. Tsinghua Science and Technology, 2022, 27, 925-938.	4.1	0
4	High-capacity ride-sharing via shortest path clustering on large road networks. Journal of Supercomputing, 2021, 77, 4081-4106.	2.4	5
5	SmartTuning: Selecting Hyper-Parameters of a ConvNet System for Fast Training and Small Working Memory. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 1690-1701.	4.0	2
6	A system hierarchy for brain-inspired computing. Nature, 2020, 586, 378-384.	13.7	88
7	APMT: an automatic hardware counter-based performance modeling tool for HPC applications. CCF Transactions on High Performance Computing, 2020, 2, 135-148.	1.1	3
8	Research trend of large-scale supercomputers and applications from the TOP500 and Gordon Bell Prize. Science China Information Sciences, 2020, 63, 1.	2.7	9
9	HyConv: Accelerating Multi-Phase CNN Computation by Fine-Grained Policy Selection. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 388-399.	4.0	5
10	Redio: Accelerating Disk-Based Graph Processing by Reducing Disk I/Os. IEEE Transactions on Computers, 2019, 68, 414-425.	2.4	2
11	An Efficient In-Memory Checkpoint Method and its Practice on Fault-Tolerant HPL. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 758-771.	4.0	9
12	PDFS: Partially Dedupped File System for Primary Workloads. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 863-876.	4.0	6
13	10M-Core Scalable Fully-Implicit Solver for Nonhydrostatic Atmospheric Dynamics. , 2016, , .		69
14	Xscale: Online X-Code RAID-6 Scaling Using Lightweight Data Reorganization. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 3687-3700.	4.0	11
15	Performance Analysis of GPU-Based Convolutional Neural Networks. , 2016, , .		83
16	Characterizing and optimizing TPC-C workloads on large-scale systems using SSD arrays. Science China Information Sciences, 2016, 59, 1.	2.7	0
17	Performance Prediction for Large-Scale Parallel Applications Using Representative Replay. IEEE Transactions on Computers, 2016, 65, 2184-2198.	2.4	19
18	Building Semi-Elastic Virtual Clusters for Cost-Effective HPC Cloud Resource Provisioning. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1915-1928.	4.0	23

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19	CaCo: An Efficient Cauchy Coding Approach for Cloud Storage Systems. IEEE Transactions on Computers, 2016, 65, 435-447.	2.4	14
20	Weibo, and a Tale of Two Worlds. , 2015, , .		6
21	Redistribute Data to Regain Load Balance during RAID-4 Scaling. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 219-229.	4.0	9
22	Flex: Flexible and Energy Efficient Scheduling for Big Data Storage. , 2015, , .		0
23	Accelerate RDP RAID-6 Scaling by Reducing Disk I/Os and XOR Operations. IEEE Transactions on Computers, 2015, 64, 32-44.	2.4	33
24	Identifying Node Role in Social Network Based on Multiple Indicators. PLoS ONE, 2014, 9, e103733.	1.1	26
25	BirdStore: Block-grained snapshot management system for instant disaster recovery. , 2014, , .		1
26	Rethinking RAID-5 Data Layout for Better Scalability. IEEE Transactions on Computers, 2014, 63, 2816-2828.	2.4	29
27	An approach of processor core customization for stencil computation. , 2014, , .		1
28	BIRDS: A Bare-Metal Recovery System for Instant Restoration of Data Services. IEEE Transactions on Computers, 2014, 63, 1392-1407.	2.4	3
29	Guarantee Strict Fairness and Utilize Prediction Better in Parallel Job Scheduling. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 971-981.	4.0	14
30	AIP: a tool for flexible and transparent data management. Science China Information Sciences, 2013, 56, 1-11.	2.7	0
31	Employing intelligence in object-based storage devices to provide attribute-based file access. Science China Information Sciences, 2013, 56, 1-10.	2.7	1
32	Improving cis-regulatory elements modeling by consensus scaffolded mixture models. Science China Information Sciences, 2013, 56, 1-11.	2.7	0
33	Taming Hardware Event Samples for Precise and Versatile Feedback Directed Optimizations. IEEE Transactions on Computers, 2013, 62, 376-389.	2.4	27
34	HW/SW approaches to accelerate GRAPES in an FU array. , 2013, , .		0
35	CG-Resync: Conversion-guided resynchronization for a SSD-based RAID array. , 2013, , .		2
36	Employing Checkpoint to Improve Job Scheduling in Large-Scale Systems. Lecture Notes in Computer Science, 2013, , 36-55.	1.0	9

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37	MassStore: A low bandwidth, high De-duplication efficiency network backup system. , 2012, , .		1
38	µLibCloud: Providing High Available and Uniform Accessing to Multiple Cloud Storages. , 2012, , .		15
39	Improving the System Capacity by Client Cooperation in Distributed File Service. , 2012, , .		0
40	A Consistent Backup Mechanism for Disaster Recovery that Using Container Based Virtualization. , 2012, , .		1
41	CUDA-Zero: a framework for porting shared memory GPU applications to multi-GPUs. Science China Information Sciences, 2012, 55, 663-676.	2.7	8
42	Task Optimization Based on CPU Pipeline Technique in Multicore System. , 2011, , .		0
43	MiF: Mitigating the Intra-file Fragmentation in Parallel File System. , 2011, , .		1
44	Model of Network-on-Chip routers and performance analysis. IEICE Electronics Express, 2011, 8, 986-993.	0.3	4
45	Automatically constructing trusted cluster computing environment. Journal of Supercomputing, 2011, 55, 51-68.	2.4	3
46	Updating preconditioner for iterative method in time domain simulation of power systems. Science China Technological Sciences, 2011, 54, 1024-1034.	2.0	4
47	Optimizing write operation on replica in data grid. Science China Information Sciences, 2011, 54, 1-11.	2.7	13
48	A user-space file system for on-demand legacy desktop software. Science China Information Sciences, 2011, 54, 1142-1150.	2.7	0
49	ASLOP: A field-access affinity-based structure data layout optimizer. Science China Information Sciences, 2011, 54, 1769-1783.	2.7	10
50	Efficient Monte Carlo-based options pricing on graphics processors and its optimizations. Science China Information Sciences, 2010, 53, 1703-1712.	2.7	3
51	Predicting the behavior of large scale P2P systems by parallel discrete event simulation. Science China Information Sciences, 2010, 53, 1109-1121.	2.7	0
52	An introduction to Tsinghua Cloud. Science China Information Sciences, 2010, 53, 1481-1486.	2.7	7
53	Design a cloud storage platform for pervasive computing environments. Cluster Computing, 2010, 13, 141-151.	3.5	32
54	An adaptive task-level fault-tolerant approach to Grid. Journal of Supercomputing, 2010, 51, 97-114.	2.4	5

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55	Improving grid performance by dynamically deploying applications. Concurrency Computation Practice and Experience, 2010, 22, 1945-1967.	1.4	1
56	A Performance Analytical Approach Based on Queuing Model for Network-on-Chip. , 2010, , .		5
57	Enabling Cloud Storage to Support Traditional Applications. , 2010, , .		15
58	Best Position Algorithms for Top-k Query Processing in Highly Distributed Environments. , 2010, , .		3
59	SMON: Self-Managed Overlay Networks for managing distributed applications. , 2010, , .		1
60	Task Partition Comparison between Multi-core System and GPU. , 2010, , .		2
61	A Knowledge-based Continuous Double Auction Model for Cloud Market. , 2010, , .		19
62	Combining topic models and string kernel for deep web categorization. , 2010, , .		1
63	PHANTOM. ACM SIGPLAN Notices, 2010, 45, 305-314.	0.2	49
64	MPIWiz. , 2009, , .		32
65	Amigo File System: CAS Based Storage Management for a Virtual Cluster System. , 2009, , .		1
66	Structure-independent disaster recovery: Concept, architecture and implementations. Science in China Series F: Information Sciences, 2009, 52, 813-823.	1.1	3
67	LogGPO: An accurate communication model for performance prediction of MPI programs. Science in China Series F: Information Sciences, 2009, 52, 1785-1791.	1.1	18
68	Defend Against Denial of Service Attack with VMM. , 2009, , .		14
69	An Heuristic Method for Web-Service Program Security Testing. , 2009, , .		2
70	FACT. , 2009, , .		26
71	A Software-Controlled Cache Coherence Optimization for Snoopy-Based SMP System. , 2009, , .		0
72	Cache Sharing Management for Performance Fairness in Chip Multiprocessors. , 2009, , .		23

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73	The Application of Virtual Machines on System Security. , 2009, , .		7
74	Distributed Metadata Management Based on Hierarchical Bloom Filters in Data Grid. , 2009, , .		3
75	Optimized mapping of pixels into memory for H.264/AVC decoding. IEICE Electronics Express, 2009, 6, 283-289.	0.3	0
76	Codec-on-Demand Based on User-Level Virtualization. IEICE Transactions on Information and Systems, 2009, E92-D, 2422-2429.	0.4	0
77	Adaptive Hybrid Model for Long Term Load Prediction in Computational Grid. , 2008, , .		18
78	VirtualCluster: Customizing the Cluster Environment through Virtual Machines. , 2008, , .		1
79	Understanding Locality-Awareness in Peer-to-Peer Systems. Parallel Processing (ICPP), Workshop, Proceedings of the International Conference on, 2008, , .	0.0	9
80	Exploring the Emerging Applications for Transactional Memory. , 2008, , .		1
81	Empirical Performance Evaluation of Message Passing Programs Running in Virtual Machines. , 2008, , .		2
82	On Virtual-Machine-Based Windows File Reads: A Performance Study. , 2008, , .		2
83	A Grid Workflow Framework with High Scalability and Usability. , 2008, , .		0
84	Maotai: View-Oriented Parallel Programming on CMT Processors. , 2008, , .		14
85	Time-Lapse Seismic Parallel Forward Modeling with Xen Virtualization. , 2008, , .		0
86	Load prediction using hybrid model for computational grid. , 2007, , .		45
87	Achieving Reliability through Replication in a Wide-Area Network DHT Storage System. Parallel Processing (ICPP), Proceedings of the International Symposium, 2007, , .	0.0	0
88	A Component Based Interoperability Solution over Existing Grid Middleware. , 2007, , .		0
89	Design and Implementation of an Out-of-Band Virtualization System for Large SANs. IEEE Transactions on Computers, 2007, 56, 1654-1665.	2.4	7
90	Adapting to Application Workflow in Processing Data Integration Queries. , 2007, , .		0

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91	OpenUH: an optimizing, portable OpenMP compiler. Concurrency Computation Practice and Experience, 2007, 19, 2317-2332.	1.4	55
92	Parallelization of module network structure learning and performance tuning on SMP. , 2006, , .		1
93	Dynamically Optimize Multicast Tree Structure. , 2006, , .		3
94	Grid Enabled Data Integration Framework for Bioinformatics Research. , 2006, , .		2
95	UGE4B: An Universal Grid Environment for Bioinformatics Research. , 2006, , .		0
96	On Interoperability: The Execution Management Perspective Based on ChinaGrid Support Platform*. , 2006, , .		1
97	Design and implementation of SCSI target emulator. Tsinghua Science and Technology, 2006, 11, 38-43.	4.1	1
98	B3A: Prompting cooperation among rational participants in P2P bulk file sharing environments. Tsinghua Science and Technology, 2006, 11, 44-49.	4.1	1
99	SCSI target simulator based on FC and IP protocols in TH-MSNS. Tsinghua Science and Technology, 2006, 11, 589-596.	4.1	1
100	Tree partition based parallel frequent pattern mining on shared memory systems. , 2006, , .		6
101	Design and implementation of a fibre channel target driver supporting SCSI. Tsinghua Science and Technology, 2005, 10, 115-121.	4.1	0
102	Design and implementation of a storage virtualization system based on SCSI target simulator in SAN. Tsinghua Science and Technology, 2005, 10, 122-127.	4.1	7
103	Hybrid decomposition method in parallel molecular dynamics simulation based on SMP cluster architecture. Tsinghua Science and Technology, 2005, 10, 183-188.	4.1	7
104	Building a portable file system for heterogeneous clusters. Tsinghua Science and Technology, 2005, 10, 108-114.	4.1	4
105	A sliced-finite difference method for the American option. IIE Transactions, 2005, 37, 939-944.	2.1	0
106	Design and Implementation of an SAN System Based on the Fiber Channel Protocol. IEEE Transactions on Computers, 2005, 54, 439-448.	2.4	13
107	PARALLEL COMPUTING METHOD OF VALUING FOR MULTI-ASSET EUROPEAN OPTION. International Journal of Information Technology and Decision Making, 2004, 03, 575-581.	2.3	2
108	SOCIAL CHOICE FOR DATA FUSION. International Journal of Information Technology and Decision Making, 2004, 03, 619-631.	2.3	0

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109	A NOVEL NUMERICAL APPROACH OF COMPUTING AMERICAN OPTION. International Journal of Foundations of Computer Science, 2002, 13, 685-693.	0.8	4
110	Interactive and symbolic data dependence analysis based on ranges of expressions. Journal of Computer Science and Technology, 2002, 17, 160-171.	0.9	0
111	EFFICIENT PARALLEL ALGORITHM FOR LARGE-SCALE MOLECULAR DYNAMICS SIMULATION IN MICROSCALE THERMOPHYSICS. , 2002, , .		0
112	Design and implementation of a low-overhead file checkpointing approach. , 2000, , .		6
113	CHARM: A CHECKPOINT-BASED ROLLBACK RECOVERY AND PROCESS MIGRATION SYSTEM FOR CLUSTER OF WORKSTATIONS. , 2000, , .		1
114	PREFETCHING AND CACHING METADATA IN A DISTRIBUTED NFS SERVER. , 2000, , .		0
115	Checkpointing and rollback recovery for network of workstations. Science in China Series D: Earth Sciences, 1999, 42, 207-214.	0.9	1
116	Granularity analysis for exploiting adaptive parallelism of declarative programs on multiprocessors. Journal of Computer Science and Technology, 1994, 9, 144-152.	0.9	2
117	BUSTER: an integrated debugger for PVM. , 0, , .		1
118	Research on cluster of workstations. , 0, , .		0
119	An effective file migration algorithm in cluster file systems. , 0, , .		2
120	Design of an I/O balancing file system on Web server clusters. , 0, , .		4
121	A class-based garbage collector for network server applications. , 0, , .		0
122	MOT: memory online tracing of Web information system. , 0, , .		1
123	TH-CluFS: an open platform cluster file system. , 0, , .		2
124	TODS: cluster object storage platform designed for scalable services. , 0, , .		0
125	Grid computing pool and its framework. , 0, , .		0
126	Parallelization of Bayesian network based snps pattern analysis and performance characterization on SMP/HT. , 0, , .		0

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127	Granary: architecture of object oriented Internet storage service. , 0, , .		6
128	A Checkpointing/Recovery System for MPI Applications on Cluster of IA-64 Computers. , 0, , .		1
129	Parallel Module Network Learning on Distributed Memory Multiprocessors. , 0, , .		2
130	ImDeploy: A Tool for Global-Scale Service Deployment on Peer-to-Peer Networks. , 0, , .		0
131	Parallel Algorithm and Implementation for Realtime Dynamic Simulation of Power System. , 0, , .		11
132	PeerWindow: An Efficient, Heterogeneous, and Autonomic Node Collection Protocol. , 0, , .		2