

Jiwu Shu

List of Publications by Year in descending order

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79
papers

997
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840776

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81
all docs

81
docs citations

81
times ranked

521
citing authors

#	ARTICLE	IF	CITATIONS
1	Loose-Ordering Consistency for persistent memory. , 2014, , .		112
2	uTree. Proceedings of the VLDB Endowment, 2020, 13, 2634-2648.	3.8	53
3	Blurred persistence in transactional persistent memory. , 2015, , .		50
4	GRID codes. ACM Transactions on Storage, 2009, 4, 1-22.	2.1	43
5	ALV: A New Data Redistribution Approach to RAID-5 Scaling. IEEE Transactions on Computers, 2010, 59, 345-357.	3.4	43
6	Reconsidering Single Failure Recovery in Clustered File Systems. , 2016, , .		42
7	SLAS. ACM Transactions on Storage, 2007, 3, 3.	2.1	38
8	FlashKV. Transactions on Embedded Computing Systems, 2017, 16, 1-19.	2.9	37
9	HV Code: An All-Around MDS Code to Improve Efficiency and Reliability of RAID-6 Systems. , 2014, , .		31
10	EDM: An Endurance-Aware Data Migration Scheme for Load Balancing in SSD Storage Clusters. , 2014, , .		28
11	Encoding-Aware Data Placement for Efficient Degraded Reads in XOR-Coded Storage Systems: Algorithms and Evaluation. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 2757-2770.	5.6	27
12	LightTx: A lightweight transactional design in flash-based SSDs to support flexible transactions. , 2013, , .		26
13	Shield: A stackable secure storage system for file sharing in public storage. Journal of Parallel and Distributed Computing, 2014, 74, 2872-2883.	4.1	22
14	D-Code: An Efficient RAID-6 Code to Optimize I/O Loads and Read Performance. , 2015, , .		22
15	Blurred Persistence. ACM Transactions on Storage, 2016, 12, 1-29.	2.1	22
16	Empirical study of redo and undo logging in persistent memory. , 2016, , .		21
17	Exploring Main Memory Design Based on Racetrack Memory Technology. , 2016, , .		20
18	A Stack-Based Single Disk Failure Recovery Scheme for Erasure Coded Storage Systems. , 2014, , .		17

#	ARTICLE	IF	CITATIONS
19	Load-Balanced Recovery Schemes for Single-Disk Failure in Storage Systems with Any Erasure Code. , 2013, , .		16
20	DACO: A High-Performance Disk Architecture Designed Specially for Large-Scale Erasure-Coded Storage Systems. IEEE Transactions on Computers, 2010, 59, 1350-1362.	3.4	14
21	CaCo: An Efficient Cauchy Coding Approach for Cloud Storage Systems. IEEE Transactions on Computers, 2016, 65, 435-447.	3.4	14
22	Design and Implementation of an SAN System Based on the Fiber Channel Protocol. IEEE Transactions on Computers, 2005, 54, 439-448.	3.4	13
23	DP 2. , 2015, , .		13
24	High-Performance and Lightweight Transaction Support in Flash-Based SSDs. IEEE Transactions on Computers, 2015, 64, 2819-2832.	3.4	12
25	ClusterSR: Cluster-Aware Scattered Repair in Erasure-Coded Storage. , 2020, , .		12
26	Analysis of factors affecting execution performance of openMP programs. Tsinghua Science and Technology, 2005, 10, 304-308.	6.1	11
27	Parallel Algorithm and Implementation for Realtime Dynamic Simulation of Power System. , 0, , .		11
28	TxCache: Transactional cache using byte-addressable non-volatile memories in SSDs. , 2014, , .		11
29	Reconsidering Single Disk Failure Recovery for Erasure Coded Storage Systems: Optimizing Load Balancing in Stack-Level. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1457-1469.	5.6	10
30	Keyword Search With Access Control Over Encrypted Cloud Data. IEEE Sensors Journal, 2017, 17, 858-868.	4.7	10
31	A Highly Efficient FC-SAN Based on Load Stream. Lecture Notes in Computer Science, 2003, , 31-40.	1.3	9
32	Keyword search with access control over encrypted data in cloud computing. , 2014, , .		9
33	Redistribute Data to Regain Load Balance during RAID-4 Scaling. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 219-229.	5.6	9
34	Supporting System Consistency with Differential Transactions in Flash-Based SSDs. IEEE Transactions on Computers, 2016, 65, 627-639.	3.4	9
35	Short Code: An Efficient RAID-6 MDS Code for Optimizing Degraded Reads and Partial Stripe Writes. IEEE Transactions on Computers, 2017, 66, 127-137.	3.4	9
36	Efficient storage management for aged file systems on persistent memory. , 2017, , .		8

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37	Preferred search over encrypted data. <i>Frontiers of Computer Science</i> , 2018, 12, 593-607.	2.4	8
38	Performance analysis on structure of racetrack memory. , 2018, , .		8
39	Efficient and Consistent NVMM Cache for SSD-Based File System. <i>IEEE Transactions on Computers</i> , 2019, 68, 1147-1158.	3.4	8
40	Design and implementation of a storage virtualization system based on SCSI target simulator in SAN. <i>Tsinghua Science and Technology</i> , 2005, 10, 122-127.	6.1	7
41	Hybrid decomposition method in parallel molecular dynamics simulation based on SMP cluster architecture. <i>Tsinghua Science and Technology</i> , 2005, 10, 183-188.	6.1	7
42	Design and Implementation of an Out-of-Band Virtualization System for Large SANs. <i>IEEE Transactions on Computers</i> , 2007, 56, 1654-1665.	3.4	7
43	Encoding-Aware Data Placement for Efficient Degraded Reads in XOR-Coded Storage Systems. , 2016, , .		7
44	Parity-Switched Data Placement: Optimizing Partial Stripe Writes in XOR-Coded Storage Systems. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2016, 27, 3311-3322.	5.6	7
45	Seek-Efficient I/O Optimization in Single Failure Recovery for XOR-Coded Storage Systems. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2017, 28, 877-890.	5.6	6
46	Empirical Study of Transactional Management for Persistent Memory. , 2018, , .		6
47	Correlation-Aware Stripe Organization for Efficient Writes in Erasure-Coded Storage: Algorithms and Evaluation. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2019, 30, 1552-1564.	5.6	6
48	Corslet: A shared storage system keeping your data private. <i>Science China Information Sciences</i> , 2011, 54, 1119-1128.	4.3	5
49	ThinStore: Out-of-Band Virtualization with Thin Provisioning. , 2011, , .		5
50	Accelerating Distributed Updates with Asynchronous Ordered Writes in a Parallel File System. , 2012, , .		5
51	EC-FRM: An Erasure Coding Framework to Speed Up Reads for Erasure Coded Cloud Storage Systems. , 2015, , .		5
52	Crash Consistent Non-Volatile Memory Express. , 2021, , .		5
53	A NOVEL NUMERICAL APPROACH OF COMPUTING AMERICAN OPTION. <i>International Journal of Foundations of Computer Science</i> , 2002, 13, 685-693.	1.1	4
54	HV Code: An All-Around MDS Code for RAID-6 Storage Systems. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2016, 27, 1674-1686.	5.6	4

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55	MagicStore: A New Out-of-Band Virtualization System in SAN Environments. Lecture Notes in Computer Science, 2005, , 379-386.	1.3	4
56	Nap: Persistent Memory Indexes for NUMA Architectures. ACM Transactions on Storage, 2022, 18, 1-35.	2.1	4
57	Preventing Silent Data Corruptions from Propagating During Data Reconstruction. IEEE Transactions on Computers, 2010, 59, 1611-1624.	3.4	3
58	Cx: Concurrent Execution for the Cross-Server Operations in a Distributed File System. , 2012, , .		3
59	CoinPurse: A Device-Assisted File System with Dual Interfaces. , 2020, , .		3
60	PARALLEL COMPUTING METHOD OF VALUING FOR MULTI-ASSET EUROPEAN OPTION. International Journal of Information Technology and Decision Making, 2004, 03, 575-581.	3.9	2
61	A Cache System Hosted on the iSCSI Target in an IP SAN. , 2006, , .		2
62	COWCache: effective flash caching for Copy-on-Write virtual disks. Cluster Computing, 2020, 23, 623-639.	5.0	2
63	SAN-MDS: A High Performance Disk Based on Memory Device for SAN. , 0, , .		1
64	Design and implementation of SCSI target emulator. Tsinghua Science and Technology, 2006, 11, 38-43.	6.1	1
65	SCSI target simulator based on FC and IP protocols in TH-MSNS. Tsinghua Science and Technology, 2006, 11, 589-596.	6.1	1
66	On the equivalence between the B-Code constructions and perfect one-factorizations. , 2010, , .		1
67	MiF: Mitigating the Intra-file Fragmentation in Parallel File System. , 2011, , .		1
68	Shifted Element Arrangement in Mirror Disk Arrays for High Data Availability during Reconstruction. , 2012, , .		1
69	Sznajd2: A Community-Aware Opinion Dynamics Model. , 2016, , .		1
70	Policy of file migration at server in cluster file system. , 0, , .		0
71	Design and implementation of a fibre channel target driver supporting SCSI. Tsinghua Science and Technology, 2005, 10, 115-121.	6.1	0
72	A sliced-finite difference method for the American option. IIE Transactions, 2005, 37, 939-944.	2.1	0

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73	Parallelization of Thermal Recovery Simulation Based on PETSc. , 2010, , .		0
74	AIP: a tool for flexible and transparent data management. Science China Information Sciences, 2013, 56, 1-11.	4.3	0
75	Secure storage system and key technologies. , 2013, , .		0
76	Exporting Transactional Interface to Applications in Log-Structured File Systems. , 2018, , .		0
77	Luna-TX: An Optimized Transactional Mechanism for Persistent Memory. , 2019, , .		0
78	EFFICIENT PARALLEL ALGORITHM FOR LARGE-SCALE MOLECULAR DYNAMICS SIMULATION IN MICROSCALE THERMOPHYSICS. , 2002, , .		0
79	Hydra: A Decentralized File System for Persistent Memory and RDMA Networks. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-16.	5.6	0