Jiwu Shu

List of Publications by Year
in descending order

79	997	949033 11	799663 21
papers	citations	h-index	g-index

81	81	81	567
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nap: Persistent Memory Indexes for NUMA Architectures. ACM Transactions on Storage, 2022, 18, 1-35.	1.4	4
2	Hydra: A Decentralized File System for Persistent Memory and RDMA Networks. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-16.	4.0	0
3	Crash Consistent Non-Volatile Memory Express. , 2021, , .		5
4	COWCache: effective flash caching for Copy-on-Write virtual disks. Cluster Computing, 2020, 23, 623-639.	3.5	2
5	ClusterSR: Cluster-Aware Scattered Repair in Erasure-Coded Storage. , 2020, , .		12
6	CoinPurse: A Device-Assisted File System with Dual Interfaces. , 2020, , .		3
7	uTree. Proceedings of the VLDB Endowment, 2020, 13, 2634-2648.	2.1	53
8	Correlation-Aware Stripe Organization for Efficient Writes in Erasure-Coded Storage: Algorithms and Evaluation. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1552-1564.	4.0	6
9	Luna-TX: An Optimized Transactional Mechanism for Persistent Memory. , 2019, , .		0
10	Efficient and Consistent NVMM Cache for SSD-Based File System. IEEE Transactions on Computers, 2019, 68, 1147-1158.	2.4	8
11	Preferred search over encrypted data. Frontiers of Computer Science, 2018, 12, 593-607.	1.6	8
12	Exporting Transactional Interface to Applications in Log-Structured File Systems. , 2018, , .		0
13	Empirical Study of Transactional Management for Persistent Memory. , 2018, , .		6
14	Performance analysis on structure of racetrack memory. , 2018, , .		8
15	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.	4.0	27
16	Short Code: An Efficient RAID-6 MDS Code for Optimizing Degraded Reads and Partial Stripe Writes. IEEE Transactions on Computers, 2017, 66, 127-137.	2.4	9
17	Efficient storage management for aged file systems on persistent memory. , 2017, , .		8
18	Keyword Search With Access Control Over Encrypted Cloud Data. IEEE Sensors Journal, 2017, 17, 858-868.	2.4	10

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19	Seek-Efficient I/O Optimization in Single Failure Recovery for XOR-Coded Storage Systems. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 877-890.	4.0	6
20	FlashKV. Transactions on Embedded Computing Systems, 2017, 16, 1-19.	2.1	37
21	Sznajd2: A Community-Aware Opinion Dynamics Model. , 2016, , .		1
22	Empirical study of redo and undo logging in persistent memory. , 2016, , .		21
23	Encoding-Aware Data Placement for Efficient Degraded Reads in XOR-Coded Storage Systems. , 2016, , .		7
24	Reconsidering Single Failure Recovery in Clustered File Systems. , 2016, , .		42
25	Exploring Main Memory Design Based on Racetrack Memory Technology. , 2016, , .		20
26	Blurred Persistence. ACM Transactions on Storage, 2016, 12, 1-29.	1.4	22
27	Parity-Switched Data Placement: Optimizing Partial Stripe Writes in XOR-Coded Storage Systems. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 3311-3322.	4.0	7
28	HV Code: An All-Around MDS Code for RAID-6 Storage Systems. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1674-1686.	4.0	4
29	Supporting System Consistency with Differential Transactions in Flash-Based SSDs. IEEE Transactions on Computers, 2016, 65, 627-639.	2.4	9
30	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.	4.0	10
31	CaCo: An Efficient Cauchy Coding Approach for Cloud Storage Systems. IEEE Transactions on Computers, 2016, 65, 435-447.	2.4	14
32	Redistribute Data to Regain Load Balance during RAID-4 Scaling. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 219-229.	4.0	9
33	EC-FRM: An Erasure Coding Framework to Speed Up Reads for Erasure Coded Cloud Storage Systems. , 2015, , .		5
34	High-Performance and Lightweight Transaction Support in Flash-Based SSDs. IEEE Transactions on Computers, 2015, 64, 2819-2832.	2.4	12
35	D-Code: An Efficient RAID-6 Code to Optimize I/O Loads and Read Performance. , 2015, , .		22
36	DP 2. , 2015, , .		13

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37	Blurred persistence in transactional persistent memory. , 2015, , .		50
38	A Stack-Based Single Disk Failure Recovery Scheme for Erasure Coded Storage Systems. , 2014, , .		17
39	HV Code: An All-Around MDS Code to Improve Efficiency and Reliability of RAID-6 Systems. , 2014, , .		31
40	TxCache: Transactional cache using byte-addressable non-volatile memories in SSDs. , 2014, , .		11
41	Keyword search with access control over encrypted data in cloud computing. , 2014, , .		9
42	EDM: An Endurance-Aware Data Migration Scheme for Load Balancing in SSD Storage Clusters. , 2014, , .		28
43	Shield: A stackable secure storage system for file sharing in public storage. Journal of Parallel and Distributed Computing, 2014, 74, 2872-2883.	2.7	22
44	Loose-Ordering Consistency for persistent memory. , 2014, , .		112
45	AIP: a tool for flexible and transparent data management. Science China Information Sciences, 2013, 56, 1-11.	2.7	0
46	Secure storage system and key technologies. , 2013, , .		0
47	LightTx: A lightweight transactional design in flash-based SSDs to support flexible transactions. , 2013, , .		26
48	Load-Balanced Recovery Schemes for Single-Disk Failure in Storage Systems with Any Erasure Code. , 2013, , .		16
49	Shifted Element Arrangement in Mirror Disk Arrays for High Data Availability during Reconstruction. , 2012, , .		1
50	Accelerating Distributed Updates with Asynchronous Ordered Writes in a Parallel File System. , 2012, , .		5
51	Cx: Concurrent Execution for the Cross-Server Operations in a Distributed File System. , 2012, , .		3
52	MiF: Mitigating the Intra-file Fragmentation in Parallel File System. , 2011, , .		1
53	Corslet: A shared storage system keeping your data private. Science China Information Sciences, 2011, 54, 1119-1128.	2.7	5
54	ThinStore: Out-of-Band Virtualization with Thin Provisioning. , 2011, , .		5

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55	ALV: A New Data Redistribution Approach to RAID-5 Scaling. IEEE Transactions on Computers, 2010, 59, 345-357.	2.4	43
56	DACO: A High-Performance Disk Architecture Designed Specially for Large-Scale Erasure-Coded Storage Systems. IEEE Transactions on Computers, 2010, 59, 1350-1362.	2.4	14
57	Preventing Silent Data Corruptions from Propagating During Data Reconstruction. IEEE Transactions on Computers, 2010, 59, 1611-1624.	2.4	3
58	On the equivalence between the B-Code constructions and perfect one-factorizations. , 2010, , .		1
59	Parallelization of Thermal Recovery Simulation Based on PETSc. , 2010, , .		0
60	GRID codes. ACM Transactions on Storage, 2009, 4, 1-22.	1.4	43
61	SLAS. ACM Transactions on Storage, 2007, 3, 3.	1.4	38
62	Design and Implementation of an Out-of-Band Virtualization System for Large SANs. IEEE Transactions on Computers, 2007, 56, 1654-1665.	2.4	7
63	A Cache System Hosted on the iSCSI Target in an IP SAN. , 2006, , .		2
64	Design and implementation of SCSI target emulator. Tsinghua Science and Technology, 2006, 11, 38-43.	4.1	1
65	SCSI target simulator based on FC and IP protocols in TH-MSNS. Tsinghua Science and Technology, 2006, 11, 589-596.	4.1	1
66	Design and implementation of a fibre channel target driver supporting SCSI. Tsinghua Science and Technology, 2005, 10, 115-121.	4.1	0
67	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
68	Hybrid decomposition method in parallel molecular dynamics simulation based on SMP cluster architecture. Tsinghua Science and Technology, 2005, 10, 183-188.	4.1	7
69	Analysis of factors affecting execution performance of openMP programs. Tsinghua Science and Technology, 2005, 10, 304-308.	4.1	11
70	A sliced-finite difference method for the American option. IIE Transactions, 2005, 37, 939-944.	2.1	0
71	Design and Implementation of an SAN System Based on the Fiber Channel Protocol. IEEE Transactions on Computers, 2005, 54, 439-448.	2.4	13
72	MagicStore: A New Out-of-Band Virtualization System in SAN Environments. Lecture Notes in Computer Science, 2005, , 379-386.	1.0	4

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73	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
74	A Highly Efficient FC-SAN Based on Load Stream. Lecture Notes in Computer Science, 2003, , 31-40.	1.0	9
75	A NOVEL NUMERICAL APPROACH OF COMPUTING AMERICAN OPTION. International Journal of Foundations of Computer Science, 2002, 13, 685-693.	0.8	4
76	EFFICIENT PARALLEL ALGORITHM FOR LARGE-SCALE MOLECULAR DYNAMICS SIMULATION IN MICROSCALE THERMOPHYSICS. , 2002, , .		0
77	Policy of file migration at server in cluster file system. , 0, , .		0
78	Parallel Algorithm and Implementation for Realtime Dynamic Simulation of Power System. , 0, , .		11
79	SAN-MDS: A High Performance Disk Based on Memory Device for SAN. , 0, , .		1