

Toni Cortes

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

869
citations

759233

12
h-index

642732

23
g-index

70
all docs

70
docs citations

70
times ranked

671
citing authors

#	ARTICLE	IF	CITATIONS
1	PyCOMPSs: Parallel computational workflows in Python. International Journal of High Performance Computing Applications, 2017, 31, 66-82.	3.7	88
2	The XtreamFS architecture—a case for object-based file systems in Grids. Concurrency Computation Practice and Experience, 2008, 20, 2049-2060.	2.2	70
3	A study on data deduplication in HPC storage systems. , 2012, , .		69
4	Single System Image. International Journal of High Performance Computing Applications, 2001, 15, 124-135.	3.7	57
5	Increasing the capacity of RAID5 by online gradual assimilation. , 2004, , .		42
6	GekkoFS - A Temporary Distributed File System for HPC Applications. , 2018, , .		35
7	Analyzing scheduling policies using Dimemas. Parallel Computing, 1997, 23, 23-34.	2.1	26
8	Direct lookup and hash-based metadata placement for local file systems. , 2013, , .		25
9	GekkoFS — A Temporary Burst Buffer File System for HPC Applications. Journal of Computer Science and Technology, 2020, 35, 72-91.	1.5	23
10	DualFS. , 2002, , .		21
11	IOStack: Software-Defined Object Storage. IEEE Internet Computing, 2016, 20, 10-18.	3.3	20
12	Ad Hoc File Systems for High-Performance Computing. Journal of Computer Science and Technology, 2020, 35, 4-26.	1.5	20
13	Reliable and randomized data distribution strategies for large scale storage systems. , 2011, , .		19
14	Dataclay: A distributed data store for effective inter-player data sharing. Journal of Systems and Software, 2017, 131, 129-145.	4.5	19
15	Running OpenMP applications efficiently on an everything-shared SDSM. Journal of Parallel and Distributed Computing, 2006, 66, 647-658.	4.1	17
16	The Design of New Journaling File Systems: The DualFS Case. IEEE Transactions on Computers, 2007, 56, 267-281.	3.4	16
17	Scalable RDMA performance in PGAS languages. , 2009, , .		16
18	File System Scalability with Highly Decentralized Metadata on Independent Storage Devices. , 2016, , .		15

#	ARTICLE	IF	CITATIONS
19	Taking advantage of heterogeneity in disk arrays. Journal of Parallel and Distributed Computing, 2003, 63, 448-464.	4.1	14
20	PACA: A cooperative file system cache for parallel machines. Lecture Notes in Computer Science, 1996, , 475-486.	1.3	13
21	Design issues of a cooperative cache with no coherence problems. , 1997, , .		8
22	Analyzing Long-Term Access Locality to Find Ways to Improve Distributed Storage Systems. , 2012, , .		8
23	Random Slicing. ACM Transactions on Storage, 2014, 10, 1-35.	2.1	8
24	Simurgh. , 2021, , .		8
25	Swap compression: resurrecting old ideas. Software - Practice and Experience, 2000, 30, 567-587.	3.6	7
26	The RAM Enhanced Disk Cache Project (REDCAP). , 2007, , .		7
27	On server-side file access pattern matching. , 2019, , .		7
28	Avoiding the cache-coherence problem in a parallel/distributed file system. Lecture Notes in Computer Science, 1997, , 860-869.	1.3	6
29	Distributing Orthogonal Redundancy on Adaptive Disk Arrays. Lecture Notes in Computer Science, 2008, , 914-931.	1.3	6
30	Using filesystem virtualization to avoid metadata bottlenecks. , 2010, , .		4
31	Simultaneous Evaluation of Multiple I/O Strategies. , 2010, , .		4
32	An autonomic framework for enhancing the quality of data grid services. Future Generation Computer Systems, 2012, 28, 1005-1016.	7.5	4
33	Evaluating the Effectiveness of REDCAP to Recover the Locality Missed by Today's Linux Systems. , 2008, , .		3
34	FaTLease. , 2008, , .		3
35	A high performance suite of data services for grids. Future Generation Computer Systems, 2010, 26, 622-632.	7.5	3
36	Automatic I/O Scheduler Selection through Online Workload Analysis. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
37	Towards DaaS 2.0: Enriching Data Models. , 2013, , .		3
38	Improving OpenStack Swift interaction with the I/O Stack to Enable Software Defined Storage. , 2017, , .		3
39	CAPre: Code-Analysis based Prefetching for Persistent Object Stores. Future Generation Computer Systems, 2020, 111, 491-506.	7.5	3
40	Autonomic Storage System Based on Automatic Learning. Lecture Notes in Computer Science, 2004, , 399-409.	1.3	3
41	FaTLease: scalable fault-tolerant lease negotiation with Paxos. Cluster Computing, 2009, 12, 175-188.	5.0	2
42	A Fault-Tolerant Algorithm For Distributed Resource Allocation. IEEE Latin America Transactions, 2017, 15, 2152-2163.	1.6	2
43	Freezing Time: A New Approach for Emulating Fast Storage Devices Using VM. , 2018, , .		2
44	Arbitration Policies for On-Demand User-Level I/O Forwarding on HPC Platforms. , 2021, , .		2
45	XtreemOS-MD: Grid Computing from Mobile Devices. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 45-58.	0.3	2
46	Adaptive Data Block Placement Based on Deterministic Zones (AdaptiveZ). , 2007, , 1214-1232.		2
47	XtreemOS Application Execution Management: A scalable approach. , 2010, , .		1
48	DADS. , 2012, , .		1
49	Better Cloud Storage Usability through Name Space Virtualization. , 2013, , .		1
50	Characterizing Performance and Energy-Efficiency of the RAMCloud Storage System. , 2017, , .		1
51	Predicting Access to Persistent Objects Through Static Code Analysis. Communications in Computer and Information Science, 2017, , 54-62.	0.5	1
52	Revisiting active object stores: Bringing data locality to the limit with NVM. Future Generation Computer Systems, 2021, , .	7.5	1
53	Handling heterogeneous storage devices in clusters. , 2007, , .		0
54	Improving GridFTP transfers by means of a multiagent parallel file system1. Multiagent and Grid Systems, 2007, 3, 441-451.	0.9	0

#	ARTICLE	IF	CITATIONS
55	Reducing data access latency in SDSM systems using runtime optimizations. , 2010, , .		0
56	A general framework for dynamic and automatic I/O scheduling in hard and solid-state drives. Journal of Parallel and Distributed Computing, 2014, 74, 2380-2391.	4.1	0
57	Fusing Storage and Computing for the Domain of Business Intelligence and Analytics – Research Opportunities. , 2015, , .		0
58	dataClay: The Integration of Persistent Data, Parallel Programming Models, and True Sharing. , 2015, , .		0
59	Improving I/O Performance Through an In-Kernel Disk Simulator. Computer Journal, 2016, 59, 1433-1452.	2.4	0
60	An Empirical Evaluation of How the Network Impacts the Performance and Energy Efficiency in RAMCloud. , 2017, , .		0
61	Freezing time emulating new and faster devices with virtual machines. CCF Transactions on High Performance Computing, 2020, 2, 3-15.	1.7	0
62	Parallel I/O and Storage Technology. Lecture Notes in Computer Science, 2001, , 887-888.	1.3	0
63	Increasing Parallelism for Workflows in the Grid. Lecture Notes in Computer Science, 2007, , 415-424.	1.3	0
64	HRaidTools: an on-line suite of simulation tools for heterogeneous RAID systems. , 2010, , .		0
65	DYON: Managing a New Scheduling Class to Improve System Performance in Multicore Systems. Lecture Notes in Computer Science, 2014, , 759-768.	1.3	0
66	Performance Impacts with Reliable Parallel File Systems at Exascale Level. Lecture Notes in Computer Science, 2015, , 277-288.	1.3	0