

Ziliang Zong

List of Publications by Year in descending order

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43
papers

1,570
citations

840119

11
h-index

839053

18
g-index

43
all docs

43
docs citations

43
times ranked

1520
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic energy-aware cloudlet-based mobile cloud computing model for green computing. Journal of Network and Computer Applications, 2016, 59, 46-54.	5.8	435
2	Phase-Change Memory Optimization for Green Cloud with Genetic Algorithm. IEEE Transactions on Computers, 2015, 64, 3528-3540.	2.4	307
3	EAD and PEBD: Two Energy-Aware Duplication Scheduling Algorithms for Parallel Tasks on Homogeneous Clusters. IEEE Transactions on Computers, 2011, 60, 360-374.	2.4	123
4	Data Allocation for Hybrid Memory With Genetic Algorithm. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 544-555.	3.2	95
5	Evaluating the Energy Efficiency of Deep Convolutional Neural Networks on CPUs and GPUs. , 2016, , .		84
6	Feedback Dynamic Algorithms for Preemptable Job Scheduling in Cloud Systems. , 2010, , .		80
7	Effects of Dynamic Voltage and Frequency Scaling on a K20 GPU. , 2013, , .		78
8	Explicitly integrating parameter, input, and structure uncertainties into Bayesian Neural Networks for probabilistic hydrologic forecasting. Journal of Hydrology, 2011, 409, 696-709.	2.3	50
9	Phase-Change Reconfigurable Shuffle Optimization for Hadoop MapReduce. IEEE Transactions on Cloud Computing, 2015, , 1-1.	3.1	28
10	Improving Security of Real-Time Wireless Networks Through Packet Scheduling [Transactions Letters]. IEEE Transactions on Wireless Communications, 2008, 7, 3273-3279.	6.1	22
11	Marcher: A Heterogeneous System Supporting Energy-Aware High Performance Computing and Big Data Analytics. Big Data Research, 2017, 8, 27-38.	2.6	22
12	Parallel Blockwise Knowledge Distillation for Deep Neural Network Compression. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 1765-1776.	4.0	22
13	Using the Greenup, Powerup, and Speedup metrics to evaluate software energy efficiency. , 2015, , .		21
14	Energy efficient scheduling for parallel applications on mobile clusters. Cluster Computing, 2008, 11, 91-113.	3.5	20
15	Performance Evaluation of Traditional Caching Policies on a Large System with Petabytes of Data. , 2012, , .		20
16	Measuring GPU Power with the K20 Built-in Sensor. , 2014, , .		19
17	Android App Energy Efficiency: The Impact of Language, Runtime, Compiler, and Implementation. , 2016, , .		19
18	Program energy efficiency: The impact of language, compiler and implementation choices. , 2014, , .		17

#	ARTICLE	IF	CITATIONS
19	Improving the energy efficiency of relational and NoSQL databases via query optimizations. Sustainable Computing: Informatics and Systems, 2019, 22, 120-133.	1.6	16
20	Maximizing Hardware Prefetch Effectiveness with Machine Learning. , 2015, , .		15
21	Energy consumption analysis of parallel sorting algorithms running on multicore systems. , 2012, , .		11
22	StReD: A quality of security framework for storage resources in Data Grids. Future Generation Computer Systems, 2007, 23, 816-824.	4.9	7
23	FastStor: improving the performance of a large scale hybrid storage system via caching and prefetching. Cluster Computing, 2014, 17, 593-604.	3.5	7
24	Optimal balance between energy and performance in hybrid computing applications. , 2015, , .		7
25	Energy and Power Characterization of Parallel Programs Running on Intel Xeon Phi. , 2014, , .		6
26	HP-DAEMON: High Performance Distributed Adaptive Energy-efficient Matrix-multiplicatiON. Procedia Computer Science, 2014, 29, 599-613.	1.2	6
27	Performance and Energy Modeling for Cooperative Hybrid Computing. , 2014, , .		5
28	Improving the cost efficiency of large-scale cloud systems running hybrid workloads - A case study of Alibaba cluster traces. Sustainable Computing: Informatics and Systems, 2021, 30, 100528.	1.6	5
29	Dependency-Based Energy-Efficient Scheduling for Homogeneous Multi-core Clusters. , 2013, , .		4
30	Bringing Green Software to Computer Science Curriculum: Perspectives from Researchers and Educators. , 2021, , .		4
31	Heat-based dynamic data caching: A load balancing strategy for energy-efficient parallel storage systems with buffer disks. , 2011, , .		3
32	Global workload characterization of a large scale satellite image distribution system. , 2012, , .		3
33	Craft Distillation: Layer-wise Convolutional Neural Network Distillation. , 2020, , .		2
34	Egok360: A 360 Egocentric Kinetic Human Activity Video Dataset. , 2020, , .		2
35	Quality of security adaptation in parallel disk systems. Journal of Parallel and Distributed Computing, 2011, 71, 288-301.	2.7	1
36	Characterizing global user download behavior on a large-scale satellite image distribution system. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
37	CRUSH: Data collection and analysis framework for power capped data intensive computing. , 2015, , .		1
38	PortAuthority: Integrating energy efficiency analysis into cross-platform development cycles via dynamic program analysis. Sustainable Computing: Informatics and Systems, 2021, 30, 100530.	1.6	1
39	Evaluating and reducing cloud waste and costâ€”A data-driven case study from Azure workloads. Sustainable Computing: Informatics and Systems, 2022, 35, 100708.	1.6	1
40	Mobile learning experience in the calculus classroom. , 2011, , .		0
41	Energy-Efficient Scheduling for Multicore Systems with Bounded Resources. , 2013, , .		0
42	Using intelligent prefetching to reduce the energy consumption of a large-scale storage system. , 2013, , .		0
43	GreenWeb: Hosting High-Load Websites Using Low-Power Servers. , 2018, , .		0