

Haibing Guan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

177
papers

2,078
citations

22
h-index

39
g-index

213
ext. papers

2,700
ext. citations

3.1
avg, IF

5.06
L-index

#	Paper	IF	Citations
177	A multi-objective ant colony system algorithm for virtual machine placement in cloud computing. <i>Journal of Computer and System Sciences</i> , 2013 , 79, 1230-1242	1	419
176	High performance network virtualization with SR-IOV. <i>Journal of Parallel and Distributed Computing</i> , 2012 , 72, 1471-1480	4.4	96
175	A survey on data center networking for cloud computing. <i>Computer Networks</i> , 2015 , 91, 528-547	5.4	66
174	Intelligent Cloud Resource Management with Deep Reinforcement Learning. <i>IEEE Cloud Computing</i> , 2017 , 4, 60-69		54
173	High performance network virtualization with SR-IOV 2010 ,		53
172	SYNC or ASYNC: time to fuse for distributed graph-parallel computation 2015 ,		50
171	Service level agreement based energy-efficient resource management in cloud data centers. <i>Computers and Electrical Engineering</i> , 2014 , 40, 1621-1633	4.3	44
170	Guaranteeing Deadlines for Inter-Data Center Transfers. <i>IEEE/ACM Transactions on Networking</i> , 2017 , 25, 579-595	3.8	43
169	Differential privacy in telco big data platform. <i>Proceedings of the VLDB Endowment</i> , 2015 , 8, 1692-1703	3.1	34
168	Replication-Based Fault-Tolerance for Large-Scale Graph Processing 2014 ,		34
167	PowerLyra. <i>ACM Transactions on Parallel Computing</i> , 2019 , 5, 1-39	1.4	33
166	VGRIS: Virtualized GPU Resource Isolation and Scheduling in Cloud Gaming. <i>Transactions on Architecture and Code Optimization</i> , 2014 , 11, 1-25	1.3	32
165	vGASA: Adaptive Scheduling Algorithm of Virtualized GPU Resource in Cloud Gaming. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 3036-3045	3.7	31
164	Towards high-quality I/O virtualization 2009 ,		31
163	2017 ,		30
162	Quality of service aware power management for virtualized data centers. <i>Journal of Systems Architecture</i> , 2013 , 59, 245-259	5.5	30
161	Design of Hybrid Wireless and Power Line Sensor Networks With Dual-Interface Relay in IoT. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 239-249	10.7	30

160	Concurrent and consistent virtual machine introspection with hardware transactional memory 2014		28
159	Object Guided External Memory Network for Video Object Detection 2019 ,		26
158	Guaranteeing deadlines for inter-datacenter transfers 2015 ,		25
157	Frontier-based multi-robot map exploration using Particle Swarm Optimization 2011 ,		23
156	VGRIS 2013 ,		23
155	ForenVisor: A Tool for Acquiring and Preserving Reliable Data in Cloud Live Forensics. <i>IEEE Transactions on Cloud Computing</i> , 2017 , 5, 443-456	3-3	22
154	Workload-Aware Credit Scheduler for Improving Network I/O Performance in Virtualization Environment. <i>IEEE Transactions on Cloud Computing</i> , 2014 , 2, 130-142	3-3	22
153	TEES: An Efficient Search Scheme over Encrypted Data on Mobile Cloud. <i>IEEE Transactions on Cloud Computing</i> , 2017 , 5, 126-139	3-3	21
152	Adaptive Power Management through Thermal Aware Workload Balancing in Internet Data Centers. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015 , 26, 2400-2409	3-7	21
151	LAWS 2014 ,		20
150	Adaptive and Scalable Optimizations for High Performance SR-IOV 2012 ,		20
149	Enhanced Slotted Aloha Protocols for Underwater Sensor Networks with Large Propagation Delay 2011 ,		19
148	On the Incentive Mechanisms for Commercial Edge Caching in 5G Wireless Networks. <i>IEEE Wireless Communications</i> , 2018 , 25, 72-78	13-4	18
147	Static program analysis assisted dynamic taint tracking for software vulnerability discovery. <i>Computers and Mathematics With Applications</i> , 2012 , 63, 469-480	2-7	17
146	Espresso 2018 ,		17
145	Efficient and Available In-Memory KV-Store with Hybrid Erasure Coding and Replication. <i>ACM Transactions on Storage</i> , 2017 , 13, 1-30	1	16
144	Energy-Efficient SLA Guarantees for Virtualized GPU in Cloud Gaming. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015 , 26, 2434-2443	3-7	16
143	Fast In-Memory Transaction Processing Using RDMA and HTM. <i>ACM Transactions on Computer Systems</i> , 2017 , 35, 1-37	1-1	16

142	Unsupervised Video Summarization with Attentive Conditional Generative Adversarial Networks 2019 ,		15
141	Secure Live Migration of SGX Enclaves on Untrusted Cloud 2017 ,		15
140	A PSO-inspired multi-robot search algorithm independent of global information 2011 ,		15
139	. <i>IEEE/ACM Transactions on Networking</i> , 2014 , 22, 1218-1231	3.8	14
138	Energy-Efficient Identification in Large-Scale RFID Systems with Handheld Reader. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 1211-1222	3.7	14
137	HYVI: A HYbrid Virtualization Solution Balancing Performance and Manageability. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 2332-2341	3.7	14
136	FLOWPROPHET: Generic and Accurate Traffic Prediction for Data-Parallel Cluster Computing 2015 ,		13
135	When I/O Interrupt Becomes System Bottleneck: Efficiency and Scalability Enhancement for SR-IOV Network Virtualization. <i>IEEE Transactions on Cloud Computing</i> , 2019 , 7, 1183-1196	3.3	13
134	COMIC: Cost Optimization for Internet Content Multihoming. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015 , 26, 1851-1860	3.7	12
133	Robust Multi-Resource Allocation with Demand Uncertainties in Cloud Scheduler 2017 ,		12
132	Reducing world switches in virtualized environment with flexible cross-world calls 2015 ,		11
131	Comprehensive understanding of operation cost reduction using energy storage for IDCs 2015 ,		11
130	Optimizing virtual machines using hybrid virtualization. <i>Journal of Systems and Software</i> , 2012 , 85, 2593-2603	3.9	11
129	Real-time Enhancement for Xen Hypervisor 2010 ,		11
128	EnDAS: Efficient Encrypted Data Search as a Mobile Cloud Service. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2015 , 3, 372-383	4.1	10
127	Scalable GPU Virtualization with Dynamic Sharing of Graphics Memory Space. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2018 , 29, 1823-1836	3.7	10
126	Vis: Virtualization enhanced live forensics acquisition for native system. <i>Digital Investigation</i> , 2012 , 9, 22-33	3.3	10
125	A Distributed Bidirectional Auction Algorithm for Multirobot Coordination 2009 ,		10

124	Deconstructing Xen 2017 ,		10
123	VButton 2018 ,		10
122	Enabling Energy Storage in Internet Datacenters: Requirements, Standards, and Opportunities. <i>IEEE Internet Computing</i> , 2016 , 20, 66-70	2.4	9
121	2009 ,		9
120	An intermediate language level optimization framework for dynamic binary translation. <i>ACM SIGPLAN Notices</i> , 2007 , 42, 3-9	0.2	9
119	STYX 2017 ,		8
118	Distributed Optimal Datacenter Bandwidth Allocation for Dynamic Adaptive Video Streaming 2015 ,		7
117	. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2013 , 24, 1118-1128	3.7	7
116	Fuzzy c-means with wavelet filtration for MR image segmentation 2014 ,		7
115	SR-IOV Based Network Interrupt-Free Virtualization with Event Based Polling. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 2596-2609	14.2	7
114	A Virtualization Based Monitoring System for Mini-intrusive Live Forensics. <i>International Journal of Parallel Programming</i> , 2015 , 43, 455-471	1.5	6
113	SMe: explicit & implicit constrained-space probabilistic threshold range queries for moving objects. <i>Geoinformatica</i> , 2016 , 20, 19-58	2.5	6
112	Embedding differential privacy in decision tree algorithm with different depths. <i>Science China Information Sciences</i> , 2017 , 60, 1	3.4	6
111	Adjustable Credit Scheduling for High Performance Network Virtualization 2012 ,		6
110	Performance Tuning Towards a KVM-Based Low Latency Virtualization System 2010 ,		6
109	CoDBT: A multi-source dynamic binary translator using hardware-Software collaborative techniques. <i>Journal of Systems Architecture</i> , 2010 , 56, 500-508	5.5	6
108	A Workflow-Aided Internet of Things Paradigm with Intelligent Edge Computing. <i>IEEE Network</i> , 2020 , 34, 92-99	11.4	6
107	Fuzzy C-means Clustering with Bilateral Filtering for Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2012 , 221-230	0.9	6

106	Towards Ubiquitous Intelligent Computing: Heterogeneous Distributed Deep Neural Networks. <i>IEEE Transactions on Big Data</i> , 2018 , 1-1	3.2	6
105	Accurate CPU Proportional Share and Predictable I/O Responsiveness for Virtual Machine Monitor: A Case Study in Xen. <i>IEEE Transactions on Cloud Computing</i> , 2017 , 5, 604-616	3.3	5
104	gMig 2018 ,		5
103	Replication-Based Fault-Tolerance for Large-Scale Graph Processing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2018 , 29, 1621-1635	3.7	5
102	A scala based framework for developing acceleration systems with FPGAs. <i>Journal of Systems Architecture</i> , 2019 , 98, 231-242	5.5	5
101	A First Look at Information Entropy-Based Data Pricing 2017 ,		5
100	. <i>IEEE Micro</i> , 2015 , 35, 34-43	1.8	5
99	Control of Large-Scale Systems through Dimension Reduction. <i>IEEE Transactions on Services Computing</i> , 2015 , 8, 563-575	4.8	5
98	SINOF: A dynamic-static combined framework for dynamic binary translation. <i>Journal of Systems Architecture</i> , 2012 , 58, 305-317	5.5	5
97	An algorithm for self-organized aggregation of swarm robotics using timer 2011 ,		5
96	Vis 2011 ,		5
95	Text Localization and Recognition in Complex Scenes Using Local Features. <i>Lecture Notes in Computer Science</i> , 2011 , 121-132	0.9	5
94	A user mode CPU/GPU scheduling framework for hybrid workloads. <i>Future Generation Computer Systems</i> , 2016 , 63, 25-36	7.5	5
93	Fairness-Efficiency Allocation of CPU-GPU Heterogeneous Resources. <i>IEEE Transactions on Services Computing</i> , 2019 , 12, 474-488	4.8	5
92	Heterogeneous Computational Resource Allocation for C-RAN: A Contract-Theoretic Approach. <i>IEEE Transactions on Services Computing</i> , 2020 , 1-1	4.8	5
91	Maximizing Profit of Cloud Service Brokerage with Economic Demand Response 2018 ,		5
90	Tracking-assisted Weakly Supervised Online Visual Object Segmentation in Unconstrained Videos 2018 ,		5
89	MigVisor 2017 ,		4

88	QTLS 2019 ,		4
87	Comprehensive VM Protection Against Untrusted Hypervisor Through Retrofitted AMD Memory Encryption 2018 ,		4
86	Efficient Sharing and Fine-Grained Scheduling of Virtualized GPU Resources 2018 ,		4
85	A refined decompiler to generate C code with high readability. <i>Software - Practice and Experience</i> , 2013 , 43, 1337-1358	2.5	4
84	Cache isolation for virtualization of mixed general-purpose and real-time systems. <i>Journal of Systems Architecture</i> , 2013 , 59, 1405-1413	5.5	4
83	An Automation-Assisted Empirical Study on Lock Usage for Concurrent Programs 2013 ,		4
82	A Refined Decompiler to Generate C Code with High Readability 2010 ,		4
81	A Multi-robot Pattern Formation Algorithm Based on Distributed Swarm Intelligence 2010 ,		4
80	SSIFT: An Improved SIFT Descriptor for Chinese Character Recognition in Complex Images 2009 ,		4
79	An Improved Descriptor for Chinese Character Recognition 2009 ,		4
78	Behavior-Based Proactive Detection of Unknown Malicious Codes 2009 ,		4
77	EnclaveCache 2019 ,		4
76	A Case for Virtualizing Persistent Memory 2016 ,		4
75	Two-phase execution of binary applications on CPU/GPU machines. <i>Computers and Electrical Engineering</i> , 2014 , 40, 1567-1579	4.3	3
74	Fuzzy Clustering with Multi-Resolution Bilateral Filtering for Medical Image Segmentation. <i>International Journal of Fuzzy System Applications</i> , 2013 , 3, 47-59	0.6	3
73	Debugging classification and anti-debugging strategies 2011 ,		3
72	Performance Enhancement and Optimized Analysis of the Worst Case End-to-End Delay for AFDX Networks 2012 ,		3
71	FiLM: A Runtime Monitoring Tool for Distributed Systems 2009 ,		3

70	Scala Based FPGA Design Flow (Abstract Only) 2017 ,		3
69	gMig. <i>ACM SIGPLAN Notices</i> , 2018 , 53, 31-44	0.2	3
68	GiantVM 2020 ,		3
67	gQoS: A QoS-Oriented GPU Virtualization with Adaptive Capacity Sharing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2020 , 31, 843-855	3.7	3
66	HybridPass: Hybrid Scheduling for Mixed Flows in Datacenter Networks 2018 ,		3
65	Secure Outsourcing of Virtual Appliance. <i>IEEE Transactions on Cloud Computing</i> , 2017 , 5, 390-404	3.3	2
64	LG-RAM: Load-aware global resource affinity management for virtualized multicore systems. <i>Journal of Systems Architecture</i> , 2019 , 98, 114-125	5.5	2
63	vSimilar: A high-adaptive VM scheduler based on the CPU pool mechanism. <i>Journal of Systems Architecture</i> , 2019 , 98, 361-373	5.5	2
62	QWEB: High-Performance Event-Driven Web Architecture With QAT Acceleration. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2020 , 31, 2633-2649	3.7	2
61	Efficient shuffle management with SCache for DAG computing frameworks 2018 ,		2
60	Demon 2018 ,		2
59	On pricing schemes in data center network with game theoretic approach 2014 ,		2
58	SRIDesk: A Streaming based Remote Interactivity architecture for desktop virtualization system 2013 ,		2
57	Re2I: An efficient output-sensitive algorithm for computing Boolean operations on circular-arc polygons and its applications. <i>CAD Computer Aided Design</i> , 2017 , 83, 1-14	2.9	2
56	Ashman: A Bandwidth Fragmentation-Based Dynamic Flow Scheduling for Data Center Networks. <i>Computer Journal</i> , 2017 , 60, 1498-1509	1.3	2
55	Memvisor: Application Level Memory Mirroring via Binary Translation 2012 ,		2
54	A Improved Clustering Analysis Method Based on Fuzzy C-Means Algorithm by Adding PSO Algorithm. <i>Lecture Notes in Computer Science</i> , 2012 , 231-242	0.9	2
53	A multi-robot self-deployment method based on Particle Swarm Optimization 2010 ,		2

52	A Hybrid Model Checking and Runtime Monitoring Method for C++ Web Services 2009 ,		2
51	FLTL-MC: Online High Level Program Analysis for Web Services 2009 ,		2
50	MTCrossBit: A Dynamic Binary Translation System Using Multithreaded Optimization Framework. <i>Lecture Notes in Computer Science</i> , 2009 , 502-512	0.9	2
49	HYBit: A Hybrid Taint Analyzing Framework for Binary Programs. <i>Lecture Notes in Computer Science</i> , 2013 , 232-239	0.9	2
48	RESERVE: An Energy-Efficient Edge Cloud Architecture for Intelligent Multi-UAV. <i>IEEE Transactions on Services Computing</i> , 2020 , 1-1	4.8	2
47	gMig: Efficient vGPU Live Migration with Overlapped Software-Based Dirty Page Verification. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2020 , 31, 1209-1222	3.7	2
46	Incentive Mechanism Design for Two-Layer Wireless Edge Caching Networks Using Contract Theory. <i>IEEE Transactions on Services Computing</i> , 2019 , 1-1	4.8	2
45	STYX: A Hierarchical Key Management System for Elastic Content Delivery Networks on Public Clouds. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2021 , 18, 843-857	3.9	2
44	Deep Learning based Fetal Middle Cerebral Artery Segmentation in Large-scale Ultrasound Images 2018 ,		2
43	A Holistic Model for Performance Prediction and Optimization on NUMA-based Virtualized Systems 2019 ,		1
42	ES2: Building an Efficient and Responsive Event Path for I/O Virtualization. <i>IEEE Transactions on Cloud Computing</i> , 2020 , 1-1	3.3	1
41	\$D^{2}\$ FL: Design and Implementation of Distributed Dynamic Fault Localization. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2018 , 15, 378-392	3.9	1
40	Multi-Granularity Memory Mirroring via Binary Translation in Cloud Environments. <i>IEEE Transactions on Network and Service Management</i> , 2014 , 11, 36-45	4.8	1
39	ES2: Aiming at an Optimal Virtual I/O Event Path 2017 ,		1
38	vINT: Hardware-Assisted Virtual Interrupt Remapping for SMP VM with Scheduling Awareness 2015 ,		1
37	A swarm intelligence based algorithm for distribute search and collective cleanup 2010 ,		1
36	Two-View Motion Segmentation by Gaussian Blurring Mean Shift with Fitness Measure 2009 ,		1
35	Performance Comparison of Register Allocation Algorithms in Dynamic Binary Translation 2009 ,		1

34	sEBP: Event Based Polling for Efficient I/O Virtualization 2012 ,		1
33	A statistical-feature-based approach to internet traffic classification using Machine Learning 2009 ,		1
32	The Implementation of Static-Integrated Optimization Framework for Dynamic Binary Translation 2009 ,		1
31	Multithreaded Optimizing Technique for Dynamic Binary Translator CrossBit 2008 ,		1
30	A Throughput-Oriented NVMe Storage Virtualization with Workload-Aware Management. <i>IEEE Transactions on Computers</i> , 2020 , 1-1	2.5	1
29	Dual Adversarial Network for Deep Active Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 680-696	0.9	1
28	A Translation Framework for Executing the Sequential Binary Code on CPU/GPU Based Architectures. <i>Journal of Software</i> , 2011 , 6,	3	1
27	DaSS: Dynamic Time Slice Scheduler for Virtual Machine Monitor. <i>Lecture Notes in Computer Science</i> , 2015 , 77-90	0.9	1
26	Online traffic-aware linked VM placement in cloud data centers. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	1
25	Enclavisor: A Hardware-Software Co-Design for Enclaves on Untrusted Cloud. <i>IEEE Transactions on Computers</i> , 2020 , 1-1	2.5	1
24	gRemote: Cloud rendering on GPU resource pool based on API-forwarding. <i>Journal of Systems Architecture</i> , 2021 , 116, 102055	5.5	1
23	Fast Consensus Using Bounded Staleness for Scalable Read-Mostly Synchronization. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2016 , 27, 3485-3500	3.7	1
22	Proactive coordination for low-congestion multi-path datacenter networks. <i>Journal of Systems Architecture</i> , 2019 , 101, 101656	5.5	1
21	COLONY: A Privileged Trusted Execution Environment with Extensibility. <i>IEEE Transactions on Computers</i> , 2021 , 1-1	2.5	1
20	Qualitative Instead of Quantitative: Towards Practical Data Analysis Under Differential Privacy. <i>Lecture Notes in Computer Science</i> , 2018 , 738-751	0.9	1
19	Model-Aided Metadata Management for Wireless Sensor Networks. <i>Lecture Notes in Computer Science</i> , 2006 , 259-268	0.9	1
18	GiantVM: A Novel Distributed Hypervisor for Resource Aggregation with DSM-aware Optimizations. <i>Transactions on Architecture and Code Optimization</i> , 2022 , 19, 1-27	1.3	1
17	Demon. <i>ACM SIGPLAN Notices</i> , 2018 , 53, 57-70	0.2	0

16	MDev-NVMe: Mediated Pass-Through NVMe Virtualization Solution with Adaptive Polling. <i>IEEE Transactions on Computers</i> , 2020 , 1-1	2.5	o
15	Code cache management based on working set in dynamic binary translator. <i>Computer Science and Information Systems</i> , 2011 , 8, 653-671	0.8	o
14	Efficient shuffle management for DAG computing frameworks based on the FRQ model. <i>Journal of Parallel and Distributed Computing</i> , 2021 , 149, 163-173	4.4	o
13	A comprehensive test framework for cryptographic accelerators in the cloud. <i>Journal of Systems Architecture</i> , 2021 , 113, 101873	5.5	o
12	The Cloud Service Broker in Multicloud Demand Response. <i>IEEE Cloud Computing</i> , 2018 , 5, 80-91		o
11	. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2017 , 28, 3486-3500	3.7	
10	Balancing Power And Performance In HPC Clouds. <i>Computer Journal</i> , 2020 , 63, 880-899	1.3	
9	WaSCO: A Hybrid Enterprise Desktop Wake-Up System Based on Cloud Infrastructure. <i>IEEE Access</i> , 2015 , 3, 2000-2013	3.5	
8	MTCrossBit: A dynamic binary translation system based on multithreaded optimization. <i>Science China Information Sciences</i> , 2011 , 54, 2064-2078	3.4	
7	QKPT: Securing Your Private Keys in Cloud with Performance, Scalability and Transparency. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2021 , 1-1	3.9	
6	A Novel System for Robust Text Location and Recognition of Book Covers. <i>Lecture Notes in Computer Science</i> , 2010 , 608-617	0.9	
5	Flexible Endian Adjustment for Cross Architecture Binary Translation. <i>Communications in Computer and Information Science</i> , 2011 , 155-162	0.3	
4	SWVM: a light-weighted virtualization platform based on Sunway CPU architecture. <i>Science China Information Sciences</i> , 2022 , 65, 1	3.4	
3	HyperCo: Optimizing Network Performance in ARM-Based Mobile Virtualization. <i>IEEE Transactions on Services Computing</i> , 2019 , 12, 131-143	4.8	
2	Enabling Cloud Applications to Negotiate Multiple Resources in a Cost-Efficient Manner. <i>IEEE Transactions on Services Computing</i> , 2021 , 14, 413-425	4.8	
1	SpaceDML: Enabling Distributed Machine Learning in Space Information Networks. <i>IEEE Network</i> , 2021 , 35, 82-87	11.4	