Xiaomin Zhu

List of Publications by Year
in descending order

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88	1,840	331538	302012
papers	citations	21 h-index	39 g-index

90	90	90	1635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Real-Time Tasks Oriented Energy-Aware Scheduling in Virtualized Clouds. IEEE Transactions on Cloud Computing, 2014, 2, 168-180.	3.1	181
2	Towards energy-efficient scheduling for real-time tasks under uncertain cloud computing environment. Journal of Systems and Software, 2015, 99, 20-35.	3.3	149
3	QoS-Aware Fault-Tolerant Scheduling for Real-Time Tasks on Heterogeneous Clusters. IEEE Transactions on Computers, 2011, 60, 800-812.	2.4	106
4	Fault-Tolerant Scheduling for Real-Time Scientific Workflows with Elastic Resource Provisioning in Virtualized Clouds. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 3501-3517.	4.0	106
5	Uncertainty-Aware Online Scheduling for Real-Time Workflows in Cloud Service Environment. IEEE Transactions on Services Computing, 2021, 14, 1167-1178.	3.2	101
6	Scheduling for Workflows with Security-Sensitive Intermediate Data by Selective Tasks Duplication in Clouds. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 2674-2688.	4.0	91
7	FESTAL: Fault-Tolerant Elastic Scheduling Algorithm for Real-Time Tasks in Virtualized Clouds. IEEE Transactions on Computers, 2015, 64, 2545-2558.	2.4	83
8	Adaptive energy-efficient scheduling for real-time tasks on DVS-enabled heterogeneous clusters. Journal of Parallel and Distributed Computing, 2012, 72, 751-763.	2.7	76
9	Deep Learning towards Mobile Applications. , 2018, , .		66
10	Dynamic Scheduling for Emergency Tasks on Distributed Imaging Satellites with Task Merging. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2275-2285.	4.0	52
11	Towards dynamic real-time scheduling for multiple earth observation satellites. Journal of Computer and System Sciences, 2015, 81, 110-124.	0.9	52
12	An Adaptive Resource Allocation Strategy for Objective Space Partition-Based Multiobjective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, , 1-16.	5.9	49
13	ANGEL: Agent-Based Scheduling for Real-Time Tasks in Virtualized Clouds. IEEE Transactions on Computers, 2015, 64, 3389-3403.	2.4	45
14	Cost-Aware Big Data Processing Across Geo-Distributed Datacenters. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 3114-3127.	4.0	43
15	Dynamic Request Redirection and Resource Provisioning for Cloud-Based Video Services under Heterogeneous Environment. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1954-1967.	4.0	35
16	Exploiting Efficient and Scalable Shuffle Transfers in Future Data Center Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 997-1009.	4.0	32
17	DEFT: Dynamic Fault-Tolerant Elastic scheduling for tasks with uncertain runtime in cloud. Information Sciences, 2019, 477, 30-46.	4.0	32
18	SP-Partitioner: A novel partition method to handle intermediate data skew in spark streaming. Future Generation Computer Systems, 2018, 86, 1054-1063.	4.9	31

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19	Federated learning with adaptive communication compression under dynamic bandwidth and unreliable networks. Information Sciences, 2020, 540, 242-262.	4.0	29
20	EONS: Minimizing Energy Consumption for Executing Real-Time Workflows in Virtualized Cloud Data Centers. , 2016, , .		24
21	Agent-Based Dynamic Scheduling for Earth-Observing Tasks on Multiple Airships in Emergency. IEEE Systems Journal, 2016, 10, 661-672.	2.9	23
22	A two-phase scheduling strategy for real-time applications with security requirements on heterogeneous clusters. Computers and Electrical Engineering, 2009, 35, 980-993.	3.0	22
23	Autonomous Cooperative Search Model for Multi-UAV With Limited Communication Network. IEEE Internet of Things Journal, 2022, 9, 19346-19361.	5.5	22
24	Rolling-horizon scheduling for energy constrained distributed real-time embedded systems. Journal of Systems and Software, 2012, 85, 780-794.	3.3	21
25	Uncertainty-Aware Real-Time Workflow Scheduling in the Cloud. , 2016, , .		20
26	SGEESS: Smart green energy-efficient scheduling strategy with dynamic electricity price for data center. Journal of Systems and Software, 2015, 108, 23-38.	3.3	19
27	3E: Energy-efficient elastic scheduling for independent tasks in heterogeneous computing systems. Journal of Systems and Software, 2013, 86, 302-314.	3.3	18
28	PEA: Parallel Evolutionary Algorithm by Separating Convergence and Diversity for Large-Scale Multi-Objective Optimization. , 2018, , .		18
29	Towards collaborative storage scheduling using alternating direction method of multipliers for mobile edge cloud. Journal of Systems and Software, 2017, 134, 29-43.	3.3	15
30	Fault-Tolerant Scheduling for Hybrid Real-Time Tasks Based on CPB Model in Cloud. IEEE Access, 2018, 6, 18616-18629.	2.6	15
31	An Edge Storage Acceleration Service for Collaborative Mobile Devices. IEEE Transactions on Services Computing, 2022, 15, 1993-2006.	3.2	15
32	EASE: Energyâ€efficient task scheduling for edge computing under uncertain runtime and unstable communication conditions. Concurrency Computation Practice and Experience, 2021, 33, 1-1.	1.4	14
33	Cooperative Data Sharing for Mobile Cloudlets Under Heterogeneous Environments. IEEE Transactions on Network and Service Management, 2019, 16, 430-444.	3.2	12
34	Boosting adaptivity of fault-tolerant scheduling for real-time tasks with service requirements on clusters. Journal of Systems and Software, 2011, 84, 1708-1716.	3.3	11
35	REED: A Reliable Energy-Efficient RAID. , 2015, , .		11
36	Elastic Resource Provisioning Using Data Clustering in Cloud Service Platform. IEEE Transactions on Services Computing, 2022, 15, 1578-1591.	3.2	11

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37	Cooperative Path Optimization for Multiple UAVs Surveillance in Uncertain Environment. IEEE Internet of Things Journal, 2022, 9, 10676-10692.	5.5	11
38	Local Storage-Based Consolidation With Resource Demand Prediction and Live Migration in Clouds. IEEE Access, 2018, 6, 26854-26865.	2.6	10
39	SAQA: A Self-Adaptive QoS-Aware Scheduling Algorithm for Real-Time Tasks on Heterogeneous Clusters. , 2010, , .		9
40	MECCAS: Collaborative Storage Algorithm Based on Alternating Direction Method of Multipliers on Mobile Edge Cloud. , 2017, , .		9
41	DMTRH: A Real-Time Scheduling Algorithm for Multiple Earth Observation Satellites. , 2012, , .		8
42	General Framework for Task Scheduling and Resource Provisioning in Cloud Computing Systems. , 2016, , .		8
43	Adaptive workflow scheduling for diverse objectives in cloud environments. Transactions on Emerging Telecommunications Technologies, 2017, 28, e2941.	2.6	8
44	Minimal Fault-Tolerant Coverage of Controllers in IaaS Datacenters. IEEE Transactions on Services Computing, 2020, 13, 1128-1141.	3.2	8
45	ADAPT: Adaptive distributed optimization approach for uploading data with redundancy in cooperative mobile cloud. Concurrency Computation Practice and Experience, 2021, 33, 1-1.	1.4	8
46	A Utility-Aware Approach to Redundant Data Upload in Cooperative Mobile Cloud. , 2016, , .		7
47	Optimal Dynamic Reserved Bandwidth Allocation for Cloud-Integrated Cyber-Physical Systems. IEEE Access, 2017, 5, 26224-26236.	2.6	7
48	A General Cross-Layer Cloud Scheduling Framework for Multiple IoT Computer Tasks. Sensors, 2018, 18, 1671.	2.1	7
49	FLEE: A Hierarchical Federated Learning Framework for Distributed Deep Neural Network over Cloud, Edge, and End Device. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-24.	2.9	6
50	Towards Adaptive Power-Aware Scheduling for Real-Time Tasks on DVS-Enabled Heterogeneous Clusters. , 2010, , .		5
51	Profit-Oriented Scheduling Optimization for Workflow in Clouds. , 2013, , .		5
52	AGILE: A terminal energy efficient scheduling method in mobile cloud computing. Transactions on Emerging Telecommunications Technologies, 2015, 26, 1323-1336.	2.6	5
53	NECTAR-An Agent-Based Dynamic Task Allocation Algorithm in the UAV Swarm. Complexity, 2020, 2020, 1-14.	0.9	5
54	Improving the Performance of Data Sharing in Dynamic Peer-to-Peer Mobile Cloud. , 2016, , .		5

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55	Energy-Aware Rolling-Horizon Scheduling for Real-Time Tasks in Virtualized Cloud Data Centers. , 2013, , .		4
56	RESS: A Reliable Energy-Efficient Storage System. , 2016, , .		4
57	MidHDC: Advanced topics on middleware services for heterogeneous distributed computing. Part 2. Future Generation Computer Systems, 2017, 74, 86-89.	4.9	4
58	QAFT: A QoS-Aware Fault-Tolerant Scheduling Algorithm for Real-Time Tasks in Heterogeneous Systems. , 2010, , .		3
59	Improving adaptivity and fairness of processing real-time tasks with QoS requirements on clusters through dynamic scheduling. Information Processing Letters, 2011, 111, 609-613.	0.4	3
60	Real-Time Fault-Tolerant Scheduling Based on Primary-Backup Approach in Virtualized Clouds. , 2013, , .		3
61	CHIME: A Checkpoint-Based Approach to Improving the Performance of Shared Clusters. , 2016, , .		3
62	A Parallel Fast Fourier Transform Algorithm for Large-Scale Signal Data Using Apache Spark in Cloud. Lecture Notes in Computer Science, 2018, , 293-310.	1.0	3
63	A server consolidation method with integrated deep learning predictor in local storage based clouds. Concurrency Computation Practice and Experience, 2018, 30, e4503.	1.4	3
64	Distributed Learning on Mobile Devices: A New Approach to Data Mining in the Internet of Things. IEEE Internet of Things Journal, 2021, 8, 10264-10279.	5.5	3
65	Energy-efficient elastic scheduling in heterogeneous computing systems. , 2011, , .		2
66	Integrating Relationships and Attributes: A Model of Multilayer Networks. , 2016, , .		2
67	STARS: Startup-Time-Aware Resource Provisioning and Real-Time Task Scheduling in Clouds. , 2016, , .		2
68	Noisy Optimization by Evolution Strategies With Online Population Size Learning. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5816-5828.	5.9	2
69	Continuous self-adaptive optimization to learn multi-task multi-agent. Complex & Intelligent Systems, 2022, 8, 1355-1367.	4.0	2
70	Classification and Identification of Moving Targets at Sea. , 2019, , .		1
71	Research on Multi-UAV Dynamic Mission Assignment Method Based on Clustering Algorithm. , 2020, , .		1
72	YISHAN: Managing Large-scale Cloud Database Instances via Machine Learning. IEEE Transactions on Services Computing, 2023, 16, 724-738.	3.2	1

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73	Userâ€level parallel file system: Case studies and performance optimizations. Concurrency Computation Practice and Experience, 0, , .	1.4	1
74	Multi-UAV Cooperative Obstacle Avoidance and Surveillance in Intelligent Transportation. , 2021, , .		1
75	Adaptive Clustering Ensemble Method Based on Uncertain Entropy Decision-Making. , 2021, , .		1
76	A Lightweight Recommendation Framework for Mobile Userâ€™s Link Selection in Dense Network. , 2017, , .		0
77	An learning-based fault-tolerant model for real-time applications on clouds. , 2017, , .		0
78	A Novel Server Consolidation Method Based on Local Storage Integrated with Resource Demand Prediction. , 2018, , .		0
79	Selective Ensemble Method Based on Spectral Clustering. , 2019, , .		0
80	Design and Experience on University-Enterprise Cooperative Training for Postgraduates. , 2019, , .		0
81	Energy-efficient Cooperative Storage Scheduling for Mobile Edge Cloud under Unstable Communication Conditions. , 2020, , .		0
82	Optimization of Joint Delivery Problem Based on Flow Control and Dynamic Programming Model. , 2020, , .		0
83	Model for Key Factors Influencing Consumer Buying Behavior Based on Online Shopping Reviews. , 2020, , .		0
84	Cooperative Localization Method of UAVs for a Persistent Surveillance Task. , 2021, , .		0
85	Online Planning-based Gene Regulatory Network for Swarm in Constrained Environment. , 2021, , .		0
86	A Logical Transformation Method of the Motion Rules for Swarms. , 2021, , .		0
87	Cooperative Observation Oriented UAVs Tracking Model in Uncertain Environment. , 2021, , .		0
88	Cooperative Target Search for UAVs in Urban Environment. , 2021, , .		0