

Albert Y Zomaya

List of Publications by Year in descending order

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837
papers

24,215
citations

12322

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h-index

19169

118
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911
all docs

911
docs citations

911
times ranked

17761
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Clustering Algorithms for Big Data: Taxonomy and Empirical Analysis. IEEE Transactions on Emerging Topics in Computing, 2014, 2, 267-279.	3.2	743
2	Federated Learning over Wireless Networks: Optimization Model Design and Analysis. , 2019, , .		565
3	A Taxonomy and Survey of Energy-Efficient Data Centers and Cloud Computing Systems. Advances in Computers, 2011, 82, 47-111.	1.2	529
4	Energy efficient utilization of resources in cloud computing systems. Journal of Supercomputing, 2012, 60, 268-280.	2.4	506
5	Edge Intelligence: The Confluence of Edge Computing and Artificial Intelligence. IEEE Internet of Things Journal, 2020, 7, 7457-7469.	5.5	480
6	Remote sensing big data computing: Challenges and opportunities. Future Generation Computer Systems, 2015, 51, 47-60.	4.9	444
7	A Review of Ensemble Methods in Bioinformatics. Current Bioinformatics, 2010, 5, 296-308.	0.7	399
8	Observations on using genetic algorithms for dynamic load-balancing. IEEE Transactions on Parallel and Distributed Systems, 2001, 12, 899-911.	4.0	293
9	A parallel bi-objective hybrid metaheuristic for energy-aware scheduling for cloud computing systems. Journal of Parallel and Distributed Computing, 2011, 71, 1497-1508.	2.7	281
10	Energy Conscious Scheduling for Distributed Computing Systems under Different Operating Conditions. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 1374-1381.	4.0	270
11	A survey and taxonomy on energy efficient resource allocation techniques for cloud computing systems. Computing (Vienna/New York), 2016, 98, 751-774.	3.2	253
12	Blockchain for smart communities: Applications, challenges and opportunities. Journal of Network and Computer Applications, 2019, 144, 13-48.	5.8	249
13	Computation Offloading for Service Workflow in Mobile Cloud Computing. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 3317-3329.	4.0	228
14	Local information transfer as a spatiotemporal filter for complex systems. Physical Review E, 2008, 77, 026110.	0.8	211
15	A Manifesto for Future Generation Cloud Computing. ACM Computing Surveys, 2019, 51, 1-38.	16.1	198
16	Federated Learning Over Wireless Networks: Convergence Analysis and Resource Allocation. IEEE/ACM Transactions on Networking, 2021, 29, 398-409.	2.6	196
17	Secure and Sustainable Load Balancing of Edge Data Centers in Fog Computing. , 2018, 56, 60-65.		188
18	A Hybrid Deep Learning-Based Model for Anomaly Detection in Cloud Datacenter Networks. IEEE Transactions on Network and Service Management, 2019, 16, 924-935.	3.2	187

#	ARTICLE	IF	CITATIONS
19	Energy-efficient data replication in cloud computing datacenters. <i>Cluster Computing</i> , 2015, 18, 385-402.	3.5	184
20	Fast Adaptive Task Offloading in Edge Computing Based on Meta Reinforcement Learning. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2021, 32, 242-253.	4.0	184
21	Forecasting yield by integrating agrarian factors and machine learning models: A survey. <i>Computers and Electronics in Agriculture</i> , 2018, 155, 257-282.	3.7	177
22	Energy-aware parallel task scheduling in a cluster. <i>Future Generation Computer Systems</i> , 2013, 29, 1661-1670.	4.9	176
23	An overview of energy efficiency techniques in cluster computing systems. <i>Cluster Computing</i> , 2013, 16, 3-15.	3.5	160
24	Optimal Multiserver Configuration for Profit Maximization in Cloud Computing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2013, 24, 1087-1096.	4.0	159
25	Big Data Privacy in the Internet of Things Era. <i>IT Professional</i> , 2015, 17, 32-39.	1.4	158
26	Location of Things (LoT): A Review and Taxonomy of Sensors Localization in IoT Infrastructure. <i>IEEE Communications Surveys and Tutorials</i> , 2018, 20, 2028-2061.	24.8	153
27	Temporal Convolutional Networks for the Advance Prediction of ENSO. <i>Scientific Reports</i> , 2020, 10, 8055.	1.6	152
28	Genetic scheduling for parallel processor systems: comparative studies and performance issues. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 1999, 10, 795-812.	4.0	151
29	SeDaSC: Secure Data Sharing in Clouds. <i>IEEE Systems Journal</i> , 2017, 11, 395-404.	2.9	141
30	pipsCloud: High performance cloud computing for remote sensing big data management and processing. <i>Future Generation Computer Systems</i> , 2018, 78, 353-368.	4.9	140
31	An Industrial Network Intrusion Detection Algorithm Based on Multifeature Data Clustering Optimization Model. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 2063-2071.	7.2	140
32	Reinforcement learning in sustainable energy and electric systems: a survey. <i>Annual Reviews in Control</i> , 2020, 49, 145-163.	4.4	135
33	Local measures of information storage in complex distributed computation. <i>Information Sciences</i> , 2012, 208, 39-54.	4.0	130
34	An Efficient Privacy-Preserving Ranked Keyword Search Method. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2016, 27, 951-963.	4.0	130
35	Robust Big Data Analytics for Electricity Price Forecasting in the Smart Grid. <i>IEEE Transactions on Big Data</i> , 2019, 5, 34-45.	4.4	129
36	An overview of Channel Assignment methods for multi-radio multi-channel wireless mesh networks. <i>Journal of Parallel and Distributed Computing</i> , 2010, 70, 505-524.	2.7	127

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37	Hybrid context enriched deep learning model for fine-grained sentiment analysis in textual and visual semiotic modality social data. Information Processing and Management, 2020, 57, 102141.	5.4	125
38	Minimizing Energy Consumption for Precedence-Constrained Applications Using Dynamic Voltage Scaling. , 2009, , .		123
39	Circuit Copyright Blockchain: Blockchain-Based Homomorphic Encryption for IP Circuit Protection. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1410-1420.	3.2	118
40	Dynamical Resource Allocation in Edge for Trustable Internet-of-Things Systems: A Reinforcement Learning Method. IEEE Transactions on Industrial Informatics, 2020, 16, 6103-6113.	7.2	116
41	A survey on resource allocation in high performance distributed computing systems. Parallel Computing, 2013, 39, 709-736.	1.3	112
42	Some observations on optimal frequency selection in DVFS-based energy consumption minimization. Journal of Parallel and Distributed Computing, 2011, 71, 1154-1164.	2.7	111
43	System modelling and performance evaluation of a three-tier Cloud of Things. Future Generation Computer Systems, 2017, 70, 104-125.	4.9	108
44	Mobility-Aware Service Composition in Mobile Communities. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 555-568.	5.9	107
45	Optimal Decision Making for Big Data Processing at Edge-Cloud Environment: An SDN Perspective. IEEE Transactions on Industrial Informatics, 2018, 14, 778-789.	7.2	107
46	Cellular automata computations and secret key cryptography. Parallel Computing, 2004, 30, 753-766.	1.3	106
47	Profit-Driven Service Request Scheduling in Clouds. , 2010, , .		102
48	Tradeoffs Between Profit and Customer Satisfaction for Service Provisioning in the Cloud. , 2011, , .		101
49	Security Issues in Wireless Sensor Networks. , 2006, , .		98
50	Information modification and particle collisions in distributed computation. Chaos, 2010, 20, 037109.	1.0	98
51	Towards Accurate Prediction for High-Dimensional and Highly-Variable Cloud Workloads with Deep Learning. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 923-934.	4.0	98
52	Optimal Application Deployment in Resource Constrained Distributed Edges. IEEE Transactions on Mobile Computing, 2021, 20, 1907-1923.	3.9	98
53	Game-Theoretic Approach for Load Balancing in Computational Grids. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 66-76.	4.0	97
54	Remote Data Auditing in Cloud Computing Environments. ACM Computing Surveys, 2015, 47, 1-34.	16.1	95

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55	Profit-driven scheduling for cloud services with data access awareness. Journal of Parallel and Distributed Computing, 2012, 72, 591-602.	2.7	94
56	Efficient allocation of resources in multiple heterogeneous Wireless Sensor Networks. Journal of Parallel and Distributed Computing, 2014, 74, 1775-1788.	2.7	89
57	Dynamic energy dispatch strategy for integrated energy system based on improved deep reinforcement learning. Energy, 2021, 235, 121377.	4.5	88
58	On Enabling Sustainable Edge Computing with Renewable Energy Resources. , 2018, 56, 94-101.		87
59	Trends and challenges in cloud datacenters. IEEE Cloud Computing, 2014, 1, 10-20.	5.3	85
60	A survey on text mining in social networks. Knowledge Engineering Review, 2015, 30, 157-170.	2.1	84
61	Adaptive Energy-Aware Computation Offloading for Cloud of Things Systems. IEEE Access, 2017, 5, 23947-23957.	2.6	83
62	Utilization-prediction-aware virtual machine consolidation approach for energy-efficient cloud data centers. Journal of Parallel and Distributed Computing, 2020, 139, 99-109.	2.7	83
63	An Efficiency-boosting Client Selection Scheme for Federated Learning with Fairness Guarantee. IEEE Transactions on Parallel and Distributed Systems, 2020, , 1-1.	4.0	83
64	Toward generating neural network structures for function approximation. Neural Networks, 1994, 7, 89-99.	3.3	82
65	Assortative mixing in directed biological networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 66-78.	1.9	82
66	An Efficient Data-Driven Clustering Technique to Detect Attacks in SCADA Systems. IEEE Transactions on Information Forensics and Security, 2016, 11, 893-906.	4.5	82
67	En-ABC: An ensemble artificial bee colony based anomaly detection scheme for cloud environment. Journal of Parallel and Distributed Computing, 2020, 135, 219-233.	2.7	81
68	On the Characterization of the Structural Robustness of Data Center Networks. IEEE Transactions on Cloud Computing, 2013, 1, 1-1.	3.1	80
69	Quantitative comparisons of the state-of-the-art data center architectures. Concurrency Computation Practice and Experience, 2013, 25, 1771-1783.	1.4	79
70	Particle Swarm Optimization based dictionary learning for remote sensing big data. Knowledge-Based Systems, 2015, 79, 43-50.	4.0	79
71	Follow Me Fog: Toward Seamless Handover Timing Schemes in a Fog Computing Environment. , 2017, 55, 72-78.		78
72	Tensor-Based Big Data Management Scheme for Dimensionality Reduction Problem in Smart Grid Systems: SDN Perspective. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 1985-1998.	4.0	78

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73	Local assortativeness in scale-free networks. Europhysics Letters, 2008, 84, 28002.	0.7	75
74	A comparison of three artificial life techniques for reporting cell planning in mobile computing. IEEE Transactions on Parallel and Distributed Systems, 2003, 14, 142-153.	4.0	74
75	The Next Grand Challenges: Integrating the Internet of Things and Data Science. IEEE Cloud Computing, 2018, 5, 12-26.	5.3	74
76	Ubiquitous Localization (UbiLoc): A Survey and Taxonomy on Device Free Localization for Smart World. IEEE Communications Surveys and Tutorials, 2019, 21, 3532-3564.	24.8	74
77	Composition-Driven IoT Service Provisioning in Distributed Edges. IEEE Access, 2018, 6, 54258-54269.	2.6	72
78	Resource-efficient workflow scheduling in clouds. Knowledge-Based Systems, 2015, 80, 153-162.	4.0	71
79	Performance and Energy Efficiency Metrics for Communication Systems of Cloud Computing Data Centers. IEEE Transactions on Cloud Computing, 2017, 5, 738-750.	3.1	71
80	GA-ETI: An enhanced genetic algorithm for the scheduling of scientific workflows in cloud environments. Journal of Computational Science, 2018, 26, 318-331.	1.5	71
81	Network Function Virtualization in Dynamic Networks: A Stochastic Perspective. IEEE Journal on Selected Areas in Communications, 2018, 36, 2218-2232.	9.7	71
82	Evolving cellular automata for location management in mobile computing networks. IEEE Transactions on Parallel and Distributed Systems, 2003, 14, 13-26.	4.0	70
83	Sample Subset Optimization Techniques for Imbalanced and Ensemble Learning Problems in Bioinformatics Applications. IEEE Transactions on Cybernetics, 2014, 44, 445-455.	6.2	70
84	Towards secure and practical consensus for blockchain based VANET. Information Sciences, 2021, 545, 170-187.	4.0	70
85	Profiling-Based Workload Consolidation and Migration in Virtualized Data Centers. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 878-890.	4.0	69
86	IoTSim@Edge: A simulation framework for modeling the behavior of Internet of Things and edge computing environments. Software - Practice and Experience, 2020, 50, 844-867.	2.5	69
87	CASpMV: A Customized and Accelerative SpMV Framework for the Sunway TaihuLight. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 131-146.	4.0	69
88	Practical Scheduling of Bag-of-Tasks Applications on Grids with Dynamic Resilience. IEEE Transactions on Computers, 2007, 56, 815-825.	2.4	68
89	A Novel Generation-Adversarial-Network-Based Vehicle Trajectory Prediction Method for Intelligent Vehicular Networks. IEEE Internet of Things Journal, 2021, 8, 2066-2077.	5.5	68
90	CA-DAG: Modeling Communication-Aware Applications for Scheduling in Cloud Computing. Journal of Grid Computing, 2016, 14, 23-39.	2.5	67

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91	A balanced scheduler with data reuse and replication for scientific workflows in cloud computing systems. <i>Future Generation Computer Systems</i> , 2017, 74, 168-178.	4.9	67
92	Novel Online Sequential Learning-Based Adaptive Routing for Edge Software-Defined Vehicular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2021, 20, 2991-3004.	6.1	66
93	Rendezvous based routing protocol for wireless sensor networks with mobile sink. <i>Journal of Supercomputing</i> , 2017, 73, 1168-1188.	2.4	65
94	A Framework of Price Bidding Configurations for Resource Usage in Cloud Computing. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2016, 27, 2168-2181.	4.0	64
95	Distributed anomaly detection for industrial wireless sensor networks based on fuzzy data modelling. <i>Journal of Parallel and Distributed Computing</i> , 2013, 73, 790-806.	2.7	63
96	Survey on Grid Resource Allocation Mechanisms. <i>Journal of Grid Computing</i> , 2014, 12, 399-441.	2.5	63
97	Optimal governance and implementation of vaccination programmes to contain the COVID-19 pandemic. <i>Royal Society Open Science</i> , 2021, 8, 210429.	1.1	63
98	A Web Platform for Interconnecting Body Sensors and Improving Health Care. <i>Procedia Computer Science</i> , 2014, 40, 135-142.	1.2	61
99	OmniSuggest: A Ubiquitous Cloud-Based Context-Aware Recommendation System for Mobile Social Networks. <i>IEEE Transactions on Services Computing</i> , 2014, 7, 401-414.	3.2	61
100	A Bee Colony based optimization approach for simultaneous job scheduling and data replication in grid environments. <i>Computers and Operations Research</i> , 2013, 40, 1564-1578.	2.4	60
101	Secure authentication and load balancing of distributed edge datacenters. <i>Journal of Parallel and Distributed Computing</i> , 2019, 124, 60-69.	2.7	60
102	Intelligent VNF Orchestration and Flow Scheduling via Model-Assisted Deep Reinforcement Learning. <i>IEEE Journal on Selected Areas in Communications</i> , 2020, 38, 279-291.	9.7	60
103	The Pagerank-Index: Going beyond Citation Counts in Quantifying Scientific Impact of Researchers. <i>PLoS ONE</i> , 2015, 10, e0134794.	1.1	60
104	Economical and Balanced Energy Usage in the Smart Home Infrastructure: A Tutorial and New Results. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2015, 3, 556-570.	3.2	59
105	A Parallel File System with Application-Aware Data Layout Policies for Massive Remote Sensing Image Processing in Digital Earth. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015, 26, 1497-1508.	4.0	59
106	Cloud Log Forensics. <i>ACM Computing Surveys</i> , 2017, 49, 1-42.	16.1	59
107	Linear Combinations of DVFS-Enabled Processor Frequencies to Modify the Energy-Aware Scheduling Algorithms. , 2010, , .		58
108	Robust $\{H_{\infty}\}$ Control of Doubly Fed Wind Generator via State-Dependent Riccati Equation Technique. <i>IEEE Transactions on Power Systems</i> , 2019, 34, 2390-2400.	4.6	58

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109	Multiprocessor scheduling and rescheduling with use of cellular automata and artificial immune system support. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 253-262.	4.0	57
110	Artificial life techniques for load balancing in computational grids. Journal of Computer and System Sciences, 2007, 73, 1176-1190.	0.9	57
111	Rescheduling for reliable job completion with the support of clouds. Future Generation Computer Systems, 2010, 26, 1192-1199.	4.9	57
112	Traffic-Aware Geo-Distributed Big Data Analytics with Predictable Job Completion Time. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 1785-1796.	4.0	57
113	Auditing Big Data Storage in Cloud Computing Using Divide and Conquer Tables. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 999-1012.	4.0	57
114	Green Data-Collection From Geo-Distributed IoT Networks Through Low-Earth-Orbit Satellites. IEEE Transactions on Green Communications and Networking, 2019, 3, 806-816.	3.5	57
115	Throughput of Infrastructure-Based Cooperative Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2964-2979.	4.7	56
116	An Unmanned Inspection System for Multiple Defects Detection in Photovoltaic Plants. IEEE Journal of Photovoltaics, 2020, 10, 568-576.	1.5	56
117	A Cooperative Game Framework for QoS Guided Job Allocation Schemes in Grids. IEEE Transactions on Computers, 2008, 57, 1413-1422.	2.4	55
118	Priority-Based Consolidation of Parallel Workloads in the Cloud. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1874-1883.	4.0	55
119	Federated Learning for COVID-19 Detection With Generative Adversarial Networks in Edge Cloud Computing. IEEE Internet of Things Journal, 2022, 9, 10257-10271.	5.5	55
120	A dynamic tradeoff data processing framework for delay-sensitive applications in Cloud of Things systems. Journal of Parallel and Distributed Computing, 2018, 112, 53-66.	2.7	54
121	Towards healthy and cost-effective indoor environment management in smart homes: A deep reinforcement learning approach. Applied Energy, 2021, 300, 117335.	5.1	54
122	Task-Tree Based Large-Scale Mosaicking for Massive Remote Sensed Imageries with Dynamic DAG Scheduling. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2126-2137.	4.0	53
123	Adaptive Resource Allocation and Provisioning in Multi-Service Cloud Environments. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 31-42.	4.0	53
124	Security, energy, and performance-aware resource allocation mechanisms for computational grids. Future Generation Computer Systems, 2014, 31, 77-92.	4.9	52
125	A Dynamic Programming Algorithm for Leveraging Probabilistic Detection of Energy Theft in Smart Home. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 502-513.	3.2	52
126	Hybrid Cryptographic Access Control for Cloud-Based EHR Systems. IEEE Cloud Computing, 2016, 3, 58-64.	5.3	52

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127	Distributed Segment-Based Anomaly Detection With Kullback-Leibler Divergence in Wireless Sensor Networks. IEEE Transactions on Information Forensics and Security, 2017, 12, 101-110.	4.5	52
128	Building a Sustainable Internet of Things: Energy-Efficient Routing Using Low-Power Sensors Will Meet the Need. IEEE Consumer Electronics Magazine, 2018, 7, 42-49.	2.3	52
129	Energy efficient genetic-based schedulers in computational grids. Concurrency Computation Practice and Experience, 2015, 27, 809-829.	1.4	51
130	Decentralized Networked Load Frequency Control in Interconnected Power Systems Based on Stochastic Jump System Theory. IEEE Transactions on Smart Grid, 2020, 11, 4427-4439.	6.2	51
131	Profiling Applications for Virtual Machine Placement in Clouds. , 2011, , .		50
132	Energy-efficient VM-placement in cloud data center. Sustainable Computing: Informatics and Systems, 2018, 20, 48-55.	1.6	50
133	TBRS: A trust based recommendation scheme for vehicular CPS network. Future Generation Computer Systems, 2019, 92, 383-398.	4.9	50
134	Cooperative power-aware scheduling in grid computing environments. Journal of Parallel and Distributed Computing, 2010, 70, 84-91.	2.7	49
135	H-PARAFAC: Hierarchical Parallel Factor Analysis of Multidimensional Big Data. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 1091-1104.	4.0	49
136	Energy trading with dynamic pricing for electric vehicles in a smart city environment. Journal of Parallel and Distributed Computing, 2019, 127, 169-183.	2.7	49
137	Vehicular Computation Offloading for Industrial Mobile Edge Computing. IEEE Transactions on Industrial Informatics, 2021, 17, 7871-7881.	7.2	49
138	RBT-GA: a novel metaheuristic for solving the multiple sequence alignment problem. BMC Genomics, 2009, 10, S10.	1.2	48
139	Ensemble-Based Wrapper Methods for Feature Selection and Class Imbalance Learning. Lecture Notes in Computer Science, 2013, , 544-555.	1.0	48
140	Cost Minimization for Rule Caching in Software Defined Networking. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1007-1016.	4.0	47
141	Renewable energy powered sustainable 5G network infrastructure: Opportunities, challenges and perspectives. Journal of Network and Computer Applications, 2021, 175, 102910.	5.8	47
142	A multi-filter enhanced genetic ensemble system for gene selection and sample classification of microarray data. BMC Bioinformatics, 2010, 11, S5.	1.2	46
143	Orchestrating the Development Lifecycle of Machine Learning-based IoT Applications. ACM Computing Surveys, 2021, 53, 1-47.	16.1	46
144	A Survey of Mobile Device Virtualization. ACM Computing Surveys, 2017, 49, 1-36.	16.1	45

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145	Greening emerging IT technologies: techniques and practices. Journal of Internet Services and Applications, 2017, 8, .	1.6	45
146	A Dimension Reduction Model and Classifier for Anomaly-Based Intrusion Detection in Internet of Things. , 2017, , .		45
147	DeFusionNET: Defocus Blur Detection via Recurrently Fusing and Refining Multi-Scale Deep Features. , 2019, , .		45
148	DeFusionNET: Defocus Blur Detection via Recurrently Fusing and Refining Discriminative Multi-Scale Deep Features. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 955-968.	9.7	45
149	Evolutionary Scheduling of Dynamic Multitasking Workloads for Big-Data Analytics in Elastic Cloud. IEEE Transactions on Emerging Topics in Computing, 2014, 2, 338-351.	3.2	44
150	Spatiotemporal Fusion of MODIS and Landsat-7 Reflectance Images via Compressed Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 7126-7139.	2.7	44
151	DROPS: Division and Replication of Data in Cloud for Optimal Performance and Security. IEEE Transactions on Cloud Computing, 2018, 6, 303-315.	3.1	44
152	A Novel State Transition Method for Metaheuristic-Based Scheduling in Heterogeneous Computing Systems. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 1215-1223.	4.0	43
153	Pareto-Optimal Cloud Bursting. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2670-2682.	4.0	43
154	Parallel Simulation of Complex Evacuation Scenarios with Adaptive Agent Models. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 847-857.	4.0	43
155	Toward Mobile Service Computing: Opportunities and Challenges. IEEE Cloud Computing, 2016, 3, 32-41.	5.3	43
156	A Systematic Review of Shared Sensor Networks. ACM Computing Surveys, 2016, 48, 1-50.	16.1	43
157	Sequential and parallel cellular automata-based scheduling algorithms. IEEE Transactions on Parallel and Distributed Systems, 2002, 13, 1009-1023.	4.0	42
158	A particle swarm based hybrid system for imbalanced medical data sampling. BMC Genomics, 2009, 10, S34.	1.2	42
159	Fairness-Aware Dynamic Rate Control and Flow Scheduling for Network Utility Maximization in Network Service Chain. IEEE Journal on Selected Areas in Communications, 2019, 37, 1059-1071.	9.7	42
160	A lightweight solution to epileptic seizure prediction based on EEG synchronization measurement. Journal of Supercomputing, 2021, 77, 3914-3932.	2.4	42
161	Lime: Low-Cost and Incremental Learning for Dynamic Heterogeneous Information Networks. IEEE Transactions on Computers, 2022, 71, 628-642.	2.4	42
162	An optimal and stable feature selection approach for traffic classification based on multi-criterion fusion. Future Generation Computer Systems, 2014, 36, 156-169.	4.9	41

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163	An integrated task computation and data management scheduling strategy for workflow applications in cloud environments. <i>Journal of Network and Computer Applications</i> , 2015, 50, 39-48.	5.8	41
164	Green Data Center Networks: Challenges and Opportunities. , 2013, , .		40
165	Bayesian tensor factorization for multi-way analysis of multi-dimensional EEG. <i>Neurocomputing</i> , 2018, 318, 162-174.	3.5	40
166	Stackelberg Game for Energy-Aware Resource Allocation to Sustain Data Centers Using RES. <i>IEEE Transactions on Cloud Computing</i> , 2019, 7, 1109-1123.	3.1	40
167	Machine Learning Techniques for Protein Secondary Structure Prediction:An Overview and Evaluation. <i>Current Bioinformatics</i> , 2008, 3, 74-86.	0.7	40
168	Performance analysis of data intensive cloud systems based on data management and replication: a survey. <i>Distributed and Parallel Databases</i> , 2016, 34, 179-215.	1.0	39
169	Uplink Performance Analysis of Dense Cellular Networks With LoS and NLoS Transmissions. <i>IEEE Transactions on Wireless Communications</i> , 2017, 16, 2601-2613.	6.1	39
170	Stochastic Resource Provisioning for Containerized Multi-Tier Web Services in Clouds. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2017, 28, 2060-2073.	4.0	39
171	A Continuous Change Detection Mechanism to Identify Anomalies in ECG Signals for WBAN-Based Healthcare Environments. <i>IEEE Access</i> , 2017, 5, 13531-13544.	2.6	39
172	A Simulated Annealing approach for mobile location management. <i>Computer Communications</i> , 2007, 30, 714-730.	3.1	38
173	Local assortativity and growth of Internet. <i>European Physical Journal B</i> , 2009, 70, 275-285.	0.6	37
174	A localized algorithm for Structural Health Monitoring using wireless sensor networks. <i>Information Fusion</i> , 2014, 15, 114-129.	11.7	37
175	AdaSampling for Positive-Unlabeled and Label Noise Learning With Bioinformatics Applications. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1932-1943.	6.2	37
176	A genetic algorithm for finding optimal location area configurations for mobility management. , 2005, , .		36
177	On the performance-driven load distribution for heterogeneous computational grids. <i>Journal of Computer and System Sciences</i> , 2007, 73, 1191-1206.	0.9	36
178	Adaptive multiple-workflow scheduling with task rearrangement. <i>Journal of Supercomputing</i> , 2015, 71, 1297-1317.	2.4	36
179	Collaboration- and Fairness-Aware Big Data Management in Distributed Clouds. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2016, 27, 1941-1953.	4.0	36
180	Distribution Based Workload Modelling of Continuous Queries in Clouds. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2017, 5, 120-133.	3.2	36

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181	Safeguard Network Slicing in 5G: A Learning Augmented Optimization Approach. IEEE Journal on Selected Areas in Communications, 2020, 38, 1600-1613.	9.7	36
182	Routing Schemes in Software-Defined Vehicular Networks: Design, Open Issues and Challenges. IEEE Intelligent Transportation Systems Magazine, 2021, 13, 217-226.	2.6	36
183	A parallel simulated annealing algorithm with low communication overhead. IEEE Transactions on Parallel and Distributed Systems, 1995, 6, 1226-1233.	4.0	35
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