Rajkummar Buyya

List of Publications by Year
in descending order

731 papers	67,457 citations	2675 95 h-index	1284 225 g-index
810 all docs	810 docs citations	810 times ranked	28792 citing authors

#	Article	IF	Citations
1	Internet of Things (IoT): A vision, architectural elements, and future directions. Future Generation Computer Systems, 2013, 29, 1645-1660.	7.5	8,719
2	Cloud computing and emerging IT platforms: Vision, hype, and reality for delivering computing as the 5th utility. Future Generation Computer Systems, 2009, 25, 599-616.	7.5	4,520
3	CloudSim: a toolkit for modeling and simulation of cloud computing environments and evaluation of resource provisioning algorithms. Software - Practice and Experience, 2011, 41, 23-50.	3.6	3,550
4	Energy-aware resource allocation heuristics for efficient management of data centers for Cloud computing. Future Generation Computer Systems, 2012, 28, 755-768.	7.5	2,163
5	Optimal online deterministic algorithms and adaptive heuristics for energy and performance efficient dynamic consolidation of virtual machines in Cloud data centers. Concurrency Computation Practice and Experience, 2012, 24, 1397-1420.	2.2	1,363
6	GridSim: a toolkit for the modeling and simulation of distributed resource management and scheduling for Grid computing. Concurrency Computation Practice and Experience, 2002, 14, 1175-1220.	2.2	1,087
7	Market-Oriented Cloud Computing: Vision, Hype, and Reality for Delivering IT Services as Computing Utilities. , 2008, , .		1,085
8	iFogSim: A toolkit for modeling and simulation of resource management techniques in the Internet of Things, Edge and Fog computing environments. Software - Practice and Experience, 2017, 47, 1275-1296.	3.6	972
9	Fog Computing: Helping the Internet of Things Realize Its Potential. Computer, 2016, 49, 112-116.	1.1	776
10	Scalable Graph Processing Frameworks. ACM Computing Surveys, 2019, 51, 1-53.	23.0	730
11	A framework for ranking of cloud computing services. Future Generation Computer Systems, 2013, 29, 1012-1023.	7.5	699
12	Economic models for resource management and scheduling in Grid computing. Concurrency Computation Practice and Experience, 2002, 14, 1507-1542.	2.2	675
13	A survey on vehicular cloud computing. Journal of Network and Computer Applications, 2014, 40, 325-344.	9.1	665
14	Modeling and simulation of scalable Cloud computing environments and the CloudSim toolkit: Challenges and opportunities. , 2009, , .		646
15	InterCloud: Utility-Oriented Federation of Cloud Computing Environments for Scaling of Application Services. Lecture Notes in Computer Science, 2010, , 13-31.	1.3	628
16	A taxonomy and survey of grid resource management systems for distributed computing. Software - Practice and Experience, 2002, 32, 135-164.	3.6	608
17	A Taxonomy of Workflow Management Systems for Grid Computing. Journal of Grid Computing, 2005, 3, 171-200.	3.9	602
18	A Particle Swarm Optimization-Based Heuristic for Scheduling Workflow Applications in Cloud Computing Environments. , 2010, , .		584

#	Article	IF	Citations
19	Big Data computing and clouds: Trends and future directions. Journal of Parallel and Distributed Computing, 2015, 79-80, 3-15.	4.1	583
20	Deadline Based Resource Provisioningand Scheduling Algorithm for Scientific Workflows on Clouds. IEEE Transactions on Cloud Computing, 2014, 2, 222-235.	4.4	539
21	Fog Computing: A Taxonomy, Survey and Future Directions. Internet of Things, 2018, , 103-130.	1.7	538
22	Energy Efficient Resource Management in Virtualized Cloud Data Centers. , 2010, , .		531
23	A Taxonomy and Survey of Energy-Efficient Data Centers and Cloud Computing Systems. Advances in Computers, 2011, 82, 47-111.	1.6	529
24	Next generation cloud computing: New trends and research directions. Future Generation Computer Systems, 2018, 79, 849-861.	7.5	528
25	Heterogeneity in Mobile Cloud Computing: Taxonomy and Open Challenges. IEEE Communications Surveys and Tutorials, 2014, 16, 369-392.	39.4	465
26	A taxonomy of scientific workflow systems for grid computing. SIGMOD Record, 2005, 34, 44-49.	1.2	425
27	CloudAnalyst: A CloudSim-Based Visual Modeller for Analysing Cloud Computing Environments and Applications. , 2010, , .		392
28	HealthFog: An ensemble deep learning based Smart Healthcare System for Automatic Diagnosis of Heart Diseases in integrated IoT and fog computing environments. Future Generation Computer Systems, 2020, 104, 187-200.	7.5	391
29	Managing Overloaded Hosts for Dynamic Consolidation of Virtual Machines in Cloud Data Centers under Quality of Service Constraints. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1366-1379.	5.6	386
30	Workload Prediction Using ARIMA Model and Its Impact on Cloud Applicationsâ€™ QoS. IEEE Transactions on Cloud Computing, 2015, 3, 449-458.	4.4	386
31	Interâ€Cloud architectures and application brokering: taxonomy and survey. Software - Practice and Experience, 2014, 44, 369-390.	3.6	356
32	Cloud-Based Augmentation for Mobile Devices: Motivation, Taxonomies, and Open Challenges. IEEE Communications Surveys and Tutorials, 2014, 16, 337-368.	39.4	342
33	A computational economy for grid computing and its implementation in the Nimrod-G resource broker. Future Generation Computer Systems, 2002, 18, 1061-1074.	7.5	330
34	Mobility-Aware Application Scheduling in Fog Computing. IEEE Cloud Computing, 2017, 4, 26-35.	3.9	319
35	Interconnected Cloud Computing Environments. ACM Computing Surveys, 2014, 47, 1-47.	23.0	313
36	Energy Efficient Allocation of Virtual Machines in Cloud Data Centers. , 2010, , .		303

#	Article	IF	Citations
37	Dynamically scaling applications in the cloud. Computer Communication Review, 2011, 41, 45-52.	1.8	289
38	Adaptive threshold-based approach for energy-efficient consolidation of virtual machines in cloud data centers. , 2010, , .		283
39	Scheduling Scientific Workflow Applications with Deadline and Budget Constraints Using Genetic Algorithms. Scientific Programming, 2006, 14, 217-230.	0.7	281
40	Cost of Virtual Machine Live Migration in Clouds: A Performance Evaluation. Lecture Notes in Computer Science, 2009, , 254-265.	1.3	281
41	Grids and Grid technologies for wide-area distributed computing. Software - Practice and Experience, 2002, 32, 1437-1466.	3.6	276
42	High-Performance Cloud Computing: A View of Scientific Applications. , 2009, , .		271
43	FogBus: A Blockchain-based Lightweight Framework for Edge and Fog Computing. Journal of Systems and Software, 2019, 154, 22-36.	4.5	265
44	Environment-conscious scheduling of HPC applications on distributed Cloud-oriented data centers. Journal of Parallel and Distributed Computing, 2011, 71, 732-749.	4.1	258
45	A taxonomy of Data Grids for distributed data sharing, management, and processing. ACM Computing Surveys, 2006, 38, 3.	23.0	254
46	A Review on Distributed Application Processing Frameworks in Smart Mobile Devices for Mobile Cloud Computing. IEEE Communications Surveys and Tutorials, 2013, 15, 1294-1313.	39.4	244
47	Workflow Scheduling Algorithms for Grid Computing. Studies in Computational Intelligence, 2008, , 173-214.	0.9	243
48	SLA-Based Resource Allocation for Software as a Service Provider (SaaS) in Cloud Computing Environments. , 2011, , .		235
49	Evaluating the cost-benefit of using cloud computing to extend the capacity of clusters. , 2009, , .		232
50	Distributed data stream processing and edge computing: A survey on resource elasticity and future directions. Journal of Network and Computer Applications, 2018, 103, 1-17.	9.1	232
51	Power Aware Scheduling of Bag-of-Tasks Applications with Deadline Constraints on DVS-enabled Clusters. , 2007, , .		229
52	SMICloud: A Framework for Comparing and Ranking Cloud Services. , 2011, , .		226
53	Quality of Experience (QoE)-aware placement of applications in Fog computing environments. Journal of Parallel and Distributed Computing, 2019, 132, 190-203.	4.1	214
54	An Application Placement Technique for Concurrent IoT Applications in Edge and Fog Computing Environments. IEEE Transactions on Mobile Computing, 2021, 20, 1298-1311.	5.8	205

#	Article	IF	Citations
55	A Manifesto for Future Generation Cloud Computing. ACM Computing Surveys, 2019, 51, 1-38.	23.0	198
56	An autonomic cloud environment for hosting ECG data analysis services. Future Generation Computer Systems, 2012, 28, 147-154.	7.5	192
57	DDoS attacks in cloud computing: Issues, taxonomy, and future directions. Computer Communications, 2017, 107, 30-48.	5.1	192
58	Virtual Machine Provisioning Based on Analytical Performance and QoS in Cloud Computing Environments. , 2011, , .		190
59	SLA-based virtual machine management for heterogeneous workloads in a cloud datacenter. Journal of Network and Computer Applications, 2014, 45, 108-120.	9.1	187
60	Meeting Deadlines of Scientific Workflows in Public Clouds with Tasks Replication. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1787-1796.	5.6	181
61	SLA-based admission control for a Software-as-a-Service provider in Cloud computing environments. Journal of Computer and System Sciences, 2012, 78, 1280-1299.	1.2	180
62	A drone-based networked system and methods for combating coronavirus disease (COVID-19) pandemic. Future Generation Computer Systems, 2021, 115, 1-19.	7.5	180
63	Towards autonomic detection of SLA violations in Cloud infrastructures. Future Generation Computer Systems, 2012, 28, 1017-1029.	7.5	163
64	An energy-aware service composition algorithm for multiple cloud-based IoT applications. Journal of Network and Computer Applications, 2017, 89, 96-108.	9.1	162
65	A taxonomy and survey on scheduling algorithms for scientific workflows in IaaS cloud computing environments. Concurrency Computation Practice and Experience, 2017, 29, e4041.	2.2	161
66	Latency-Aware Application Module Management for Fog Computing Environments. ACM Transactions on Internet Technology, 2019, 19, 1-21.	4.4	161
67	FOCAN: A Fog-supported smart city network architecture for management of applications in the Internet of Everything environments. Journal of Parallel and Distributed Computing, 2019, 132, 274-283.	4.1	160
68	NetworkCloudSim: Modelling Parallel Applications in Cloud Simulations. , 2011, , .		157
69	Auto-Scaling Web Applications in Clouds. ACM Computing Surveys, 2019, 51, 1-33.	23.0	156
70	A budget constrained scheduling of workflow applications on utility Grids using genetic algorithms. , 2006, , .		151
71	An efficient and secure privacy-preserving approach for outsourced data of resource constrained mobile devices in cloud computing. Journal of Network and Computer Applications, 2016, 64, 12-22.	9.1	151
72	A survey on load balancing algorithms for virtual machines placement in cloud computing. Concurrency Computation Practice and Experience, 2017, 29, e4123.	2.2	151

#	Article	IF	Citations
73	The Aneka platform and QoS-driven resource provisioning for elastic applications on hybrid Clouds. Future Generation Computer Systems, 2012, 28, 861-870.	7.5	144
74	Cloudbus Toolkit for Market-Oriented Cloud Computing. Lecture Notes in Computer Science, 2009, , 24-44.	1.3	143
75	Searching for the IoT Resources: Fundamentals, Requirements, Comprehensive Review, and Future Directions. IEEE Communications Surveys and Tutorials, 2018, 20, 2101-2132.	39.4	140
76	Market-oriented Grids and Utility Computing: The State-of-the-art and Future Directions. Journal of Grid Computing, 2008, 6, 255-276.	3.9	138
77	SLA-oriented resource provisioning for cloud computing: Challenges, architecture, and solutions. , 2011, , .		138
78	Computational Intelligence Based QoS-Aware Web Service Composition: A Systematic Literature Review. IEEE Transactions on Services Computing, 2017, 10, 475-492.	4.6	138
79	Failure-aware resource provisioning for hybrid Cloud infrastructure. Journal of Parallel and Distributed Computing, 2012, 72, 1318-1331.	4.1	136
80	Deadline-driven provisioning of resources for scientific applications in hybrid clouds with Aneka. Future Generation Computer Systems, 2012, 28, 58-65.	7.5	136
81	Mobile code offloading: from concept to practice and beyond. , 2015, 53, 80-88.		135
82	Market-Oriented Cloud Computing: Vision, Hype, and Reality of Delivering Computing as the 5th Utility. , 2009, , .		133
83	OpenStack Neat: a framework for dynamic and energyâ€efficient consolidation of virtual machines in OpenStack clouds. Concurrency Computation Practice and Experience, 2015, 27, 1310-1333.	2.2	133
84	Powerâ€aware provisioning of virtual machines for realâ€time Cloud services. Concurrency Computation Practice and Experience, 2011, 23, 1491-1505.	2.2	131
85	Application partitioning algorithms in mobile cloud computing: Taxonomy, review and future directions. Journal of Network and Computer Applications, 2015, 48, 99-117.	9.1	130
86	Cloud Service Reliability Enhancement via Virtual Machine Placement Optimization. IEEE Transactions on Services Computing, 2017, 10, 902-913.	4.6	130
87	A Grid service broker for scheduling e-Science applications on global data Grids. Concurrency Computation Practice and Experience, 2006, 18, 685-699.	2.2	129
88	The anatomy of big data computing. Software - Practice and Experience, 2016, 46, 79-105.	3.6	125
89	Social Internet of Things (SIoT): Foundations, thrust areas, systematic review and future directions. Computer Communications, 2019, 139, 32-57.	5.1	125
90	Quantum computing: A taxonomy, systematic review and future directions. Software - Practice and Experience, 2022, 52, 66-114.	3.6	125

#	Article	IF	Citations
91	Power-aware provisioning of Cloud resources for real-time services. , 2009, , .		123
92	A toolkit for modelling and simulating data Grids: an extension to GridSim. Concurrency Computation Practice and Experience, 2008, 20, 1591-1609.	2.2	122
93	ROUTER: Fog enabled cloud based intelligent resource management approach for smart home IoT devices. Journal of Systems and Software, 2019, 154, 125-138.	4.5	122
94	Optimizing the makespan and reliability for workflow applications with reputation and a look-ahead genetic algorithm. Future Generation Computer Systems, 2011, 27, 1124-1134.	7.5	121
95	Energy-aware simulation with DVFS. Simulation Modelling Practice and Theory, 2013, 39, 76-91.	3.8	121
96	Seamless application execution in mobile cloud computing: Motivation, taxonomy, and open challenges. Journal of Network and Computer Applications, 2015, 52, 154-172.	9.1	121
97	MetaCDN: Harnessing â€˜Storage Cloudsâ€™ for high performance content delivery. Journal of Network and Computer Applications, 2009, 32, 1012-1022.	9.1	120
98	A grid service broker for scheduling distributed data-oriented applications on global grids. , 2004, , .		117
99	Virtual Machine Consolidation in Cloud Data Centers Using ACO Metaheuristic. Lecture Notes in Computer Science, 2014, , 306-317.	1.3	117
100	Ensuring Security and Privacy Preservation for Cloud Data Services. ACM Computing Surveys, 2017, 49, 1-39.	23.0	115
101	Time and cost trade-off management for scheduling parallel applications on Utility Grids. Future Generation Computer Systems, 2010, 26, 1344-1355.	7.5	113
102	QoS-aware cloud service composition using eagle strategy. Future Generation Computer Systems, 2019, 90, 273-290.	7.5	113
103	Application Management in Fog Computing Environments. ACM Computing Surveys, 2021, 53, 1-43.	23.0	112
104	Resource Provisioning Policies to Increase IaaS Provider's Profit in a Federated Cloud Environment. , 2011, , .		110
105	The Virtual Laboratory: a toolset to enable distributed molecular modelling for drug design on the World-Wide Grid. Concurrency Computation Practice and Experience, 2003, 15, 1-25.	2.2	109
106	Statistical Modeling of Spot Instance Prices in Public Cloud Environments. , 2011, , .		109
107	Cloud-Fog Interoperability in IoT-enabled Healthcare Solutions. , 2018, , .		109
108	ContainerCloudSim: An environment for modeling and simulation of containers in cloud data centers. Software - Practice and Experience, 2017, 47, 505-521.	3.6	106

#	Article	IF	Citations
109	Multi-objective planning for workflow execution on Grids. , 2007, , .		104
110	Adaptive workflow scheduling for dynamic grid and cloud computing environment. Concurrency Computation Practice and Experience, 2013, 25, 1816-1842.	2.2	103
111	mCloud: A Context-Aware Offloading Framework for Heterogeneous Mobile Cloud. IEEE Transactions on Services Computing, 2017, 10, 797-810.	4.6	103
112	Dynamic Scheduling for Stochastic Edge-Cloud Computing Environments Using A3C Learning and Residual Recurrent Neural Networks. IEEE Transactions on Mobile Computing, 2022, 21, 940-954.	5.8	103
113	Scheduling parameter sweep applications on global Grids: a deadline and budget constrained cost-time optimization algorithm. Software - Practice and Experience, 2005, 35, 491-512.	3.6	101
114	Bandwidthâ€aware divisible task scheduling for cloud computing. Software - Practice and Experience, 2014, 44, 163-174.	3.6	101
115	BlockSDN: Blockchain-as-a-Service for Software Defined Networking in Smart City Applications. IEEE Network, 2020, 34, 83-91.	6.9	101
116	A cost-benefit analysis of using cloud computing to extend theÂcapacity of clusters. Cluster Computing, 2010, 13, 335-347.	5.0	100
117	SLA-Based Resource Provisioning for Hosted Software-as-a-Service Applications in Cloud Computing Environments. IEEE Transactions on Services Computing, 2014, 7, 465-485.	4.6	100
118	A Dynamic Critical Path Algorithm for Scheduling Scientific Workflow Applications on Global Grids. , 2007, , .		99
119	Robust Scheduling of Scientific Workflows with Deadline and Budget Constraints in Clouds. , 2014, , .		99
120	A Context Sensitive Offloading Scheme for Mobile Cloud Computing Service. , 2015, , .		99
121	Energy-aware virtual machine allocation for cloud with resource reservation. Journal of Systems and Software, 2019, 147, 147-161.	4.5	98
122	Multiobjective differential evolution for scheduling workflow applications on global Grids. Concurrency Computation Practice and Experience, 2009, 21, 1742-1756.	2.2	97
123	Dynamic VM Placement Method for Minimizing Energy and Carbon Cost in Geographically Distributed Cloud DataÂCenters. IEEE Transactions on Sustainable Computing, 2017, 2, 183-196.	3.1	96
124	Remote Data Auditing in Cloud Computing Environments. ACM Computing Surveys, 2015, 47, 1-34.	23.0	95
125	SELCLOUD: a hybrid multi-criteria decision-making model for selection of cloud services. Soft Computing, 2019, 23, 4701-4715.	3.6	95
126	A New Service Mechanism for Profit Optimizations of a Cloud Provider and Its Users. IEEE Transactions on Cloud Computing, 2021, 9, 14-26.	4.4	95

#	Article	IF	Citations
127	Libra: a computational economy-based job scheduling system for clusters. Software - Practice and Experience, 2004, 34, 573-590.	3.6	94
128	Peer-to-peer-based resource discovery in global grids: a tutorial. IEEE Communications Surveys and Tutorials, 2008, 10, 6-33.	39.4	94
129	Pricing Cloud Compute Commodities: A Novel Financial Economic Model. , 2012, , .		94
130	An Evaluation of Economy-based Resource Trading and Scheduling on Computational Power Grids for Parameter Sweep Applications. Kluwer International Series in Engineering and Computer Science, 2000, , 221-230.	0.2	94
131	IoT Based Agriculture as a Cloud and Big Data Service. Journal of Organizational and End User Computing, 2017, 29, 1-23.	2.9	93
132	HPC Cloud for Scientific and Business Applications. ACM Computing Surveys, 2019, 51, 1-29.	23.0	93
133	Autonomic metered pricing for a utility computing service. Future Generation Computer Systems, 2010, 26, 1368-1380.	7.5	92
134	Indie Fog: An Efficient Fog-Computing Infrastructure for the Internet of Things. Computer, 2017, 50, 92-98.	1.1	91
135	Fault-tolerant Workflow Scheduling using Spot Instances on Clouds. Procedia Computer Science, 2014, 29, 523-533.	2.0	90
136	A Taxonomy and Future Directions for Sustainable Cloud Computing. ACM Computing Surveys, 2019, 51, 1-33.	23.0	90
137	A coordinator for scaling elastic applications across multiple clouds. Future Generation Computer Systems, 2012, 28, 1350-1362.	7.5	88
138	Deadline–constrained coevolutionary genetic algorithm for scientific workflow scheduling in cloud computing. Concurrency Computation Practice and Experience, 2017, 29, e3942.	2.2	88
139	Profit-aware application placement for integrated Fog–Cloud computing environments. Journal of Parallel and Distributed Computing, 2020, 135, 177-190.	4.1	87
140	Network-centric performance analysis of runtime application migration in mobile cloud computing. Simulation Modelling Practice and Theory, 2015, 50, 42-56.	3.8	83
141	Mobi-IoST: Mobility-Aware Cloud-Fog-Edge-IoT Collaborative Framework for Time-Critical Applications. IEEE Transactions on Network Science and Engineering, 2020, 7, 2271-2285.	6.4	83
142	Utilization-prediction-aware virtual machine consolidation approach for energy-efficient cloud data centers. Journal of Parallel and Distributed Computing, 2020, 139, 99-109.	4.1	83
143	Characterizing spot price dynamics in public cloud environments. Future Generation Computer Systems, 2013, 29, 988-999.	7.5	82
144	Dynamic Voltage and Frequency Scaling–aware dynamic consolidation of virtual machines for energy efficient cloud data centers. Concurrency Computation Practice and Experience, 2017, 29, e4067.	2.2	82

#	Article	IF	Citations
145	A taxonomy of computer-based simulations and its mapping to parallel and distributed systems simulation tools. Software - Practice and Experience, 2004, 34, 653-673.	3.6	80
146	MRPGA: An Extension of MapReduce for Parallelizing Genetic Algorithms. , 2008, , .		80
147	Energy and Carbon-Efficient Placement of Virtual Machines in Distributed Cloud DataÂCenters. Lecture Notes in Computer Science, 2013, , 317-328.	1.3	78
148	Compatibility-Aware Cloud Service Composition under Fuzzy Preferences of Users. IEEE Transactions on Cloud Computing, 2014, 2, 1-13.	4.4	78
149	A Framework and Algorithm for Energy Efficient Container Consolidation in Cloud Data Centers. , 2015, , .		77
150	Workload modeling for resource usage analysis and simulation in cloud computing. Computers and Electrical Engineering, 2015, 47, 69-81.	4.8	77
151	Reliable Provisioning of Spot Instances for Compute-intensive Applications. , 2012, , .		76
152	A taxonomy of market-based resource management systems for utility-driven cluster computing. Software - Practice and Experience, 2006, 36, 1381-1419.	3.6	75
153	Application-aware cloudlet selection for computation offloading in multi-cloudlet environment. Journal of Supercomputing, 2017, 73, 1672-1690.	3.6	75
154	iFogSim2: An extended iFogSim simulator for mobility, clustering, and microservice management in edge and fog computing environments. Journal of Systems and Software, 2022, 190, 111351.	4.5	75
155	Pricing for Utility-Driven Resource Management and Allocation in Clusters. International Journal of High Performance Computing Applications, 2007, 21, 405-418.	3.7	74
156	CloudEyes: Cloudâ€based malware detection with reversible sketch for resourceâ€constrained internet of things (IoT) devices. Software - Practice and Experience, 2017, 47, 421-441.	3.6	74
157	The Next Grand Challenges: Integrating the Internet of Things and Data Science. IEEE Cloud Computing, 2018, 5, 12-26.	3.9	74
158	<title>Economic models for management of resources in peer-to-peer and grid computing</title>. , 2001, 4528, 13.		73
159	Service Level Agreement based Allocation of Cluster Resources: Handling Penalty to Enhance Utility. , 2005, , .		73
160	Harnessing Cloud Technologies for a Virtualized Distributed Computing Infrastructure. IEEE Internet Computing, 2009, 13, 24-33.	3.3	73
161	EMUSIM: an integrated emulation and simulation environment for modeling, evaluation, and validation of performance of Cloud computing applications. Software - Practice and Experience, 2013, 43, 595-612.	3.6	73
162	Renewable-aware geographical load balancing of web applications for sustainable data centers. Journal of Network and Computer Applications, 2017, 83, 155-168.	9.1	73

#	Article	IF	Citations
163	SLA-Aware and Energy-Efficient Dynamic Overbooking in SDN-Based Cloud Data Centers. IEEE Transactions on Sustainable Computing, 2017, 2, 76-89.	3.1	73
164	Mobile Cloud Business Process Management System for the Internet of Things. ACM Computing Surveys, 2017, 49, 1-42.	23.0	73
165	Using Proactive Fault-Tolerance Approach to Enhance Cloud Service Reliability. IEEE Transactions on Cloud Computing, 2018, 6, 1191-1202.	4.4	73
166	A Taxonomy of Software-Defined Networking (SDN)-Enabled Cloud Computing. ACM Computing Surveys, 2019, 51, 1-36.	23.0	73
167	An Effective Architecture for Automated Appliance Management System Applying Ontology-Based Cloud Discovery. , 2010, , .		72
168	SLA-Based Resource Provisioning for Heterogeneous Workloads in a Virtualized Cloud Datacenter. Lecture Notes in Computer Science, 2011, , 371-384.	1.3	72
169	CloudSimSDN: Modeling and Simulation of Software-Defined Cloud Data Centers. , 2015, , .		71
170	Attribute-based data access control in mobile cloud computing: Taxonomy and open issues. Future Generation Computer Systems, 2017, 72, 273-287.	7.5	71
171	Aneka: Next-Generation Enterprise Grid Platform for e-Science and e-Business Applications. , 2007, , .		70
172	Managing Peak Loads by Leasing Cloud Infrastructure Services from a Spot Market. , 2010, , .		70
173	Budget-Driven Scheduling of Scientific Workflows in IaaS Clouds with Fine-Grained Billing Periods. ACM Transactions on Autonomous and Adaptive Systems, 2017, 12, 1-22.	0.8	70
174	Scheduling dynamic workloads in multi-tenant scientific workflow as a service platforms. Future Generation Computer Systems, 2018, 79, 739-750.	7.5	70
175	Resource provisioning for data-intensive applications with deadline constraints on hybrid clouds using Aneka. Future Generation Computer Systems, 2018, 79, 765-775.	7.5	70
176	On incorporating differentiated levels of network service into GridSim. Future Generation Computer Systems, 2007, 23, 606-615.	7.5	68
177	A reliable and cost-efficient auto-scaling system for web applications using heterogeneous spot instances. Journal of Network and Computer Applications, 2016, 65, 167-180.	9.1	67
178	Augmentation Techniques for Mobile Cloud Computing. ACM Computing Surveys, 2019, 51, 1-38.	23.0	67
179	A Negotiation Mechanism for Advance Resource Reservations Using the Alternate Offers Protocol. IEEE International Workshop on Quality of Service, 2008, , .	0.0	65
180	Internet of Things as a Service (iTaaS): Challenges and solutions for management of sensor data on the cloud and the fog. Internet of Things (Netherlands), 2018, 3-4, 156-174.	7.7	65

#	Article	IF	Citations
181	A Hybrid Bio-Inspired Algorithm for Scheduling and Resource Management in Cloud Environment. IEEE Transactions on Services Computing, 2020, 13, 3-15.	4.6	65
182	InterGrid: a case for internetworking islands of Grids. Concurrency Computation Practice and Experience, 2008, 20, 997-1024.	2.2	64
183	STAR: SLA-aware Autonomic Management of Cloud Resources. IEEE Transactions on Cloud Computing, 2020, 8, 1040-1053.	4.4	64
184	Architectural Models for Resource Management in the Grid. Lecture Notes in Computer Science, 2000, , 18-35.	1.3	64
185	CHOPPER: an intelligent QoS-aware autonomic resource management approach for cloud computing. Cluster Computing, 2018, 21, 1203-1241.	5.0	62
186	Autonomic Cloud computing: Open challenges and architectural elements. , 2012, , .		61
187	Data Storage Management in Cloud Environments. ACM Computing Surveys, 2018, 50, 1-51.	23.0	61
188	BULLET: Particle Swarm Optimization Based Scheduling Technique for Provisioned Cloud Resources. Journal of Network and Systems Management, 2018, 26, 361-400.	4.9	61
189	Multi-Cloud Provisioning and Load Distribution for Three-Tier Applications. ACM Transactions on Autonomous and Adaptive Systems, 2014, 9, 1-21.	0.8	60
190	Cost Optimization for Dynamic Replication and Migration of Data in Cloud Data Centers. IEEE Transactions on Cloud Computing, 2019, 7, 705-718.	4.4	60
191	Context-Aware Placement of Industry 4.0 Applications in Fog Computing Environments. IEEE Transactions on Industrial Informatics, 2020, 16, 7004-7013.	11.3	60
192	A Cost-Efficient Container Orchestration Strategy in Kubernetes-Based Cloud Computing Infrastructures with Heterogeneous Resources. ACM Transactions on Internet Technology, 2020, 20, 1-24.	4.4	60
193	Cloud Log Forensics. ACM Computing Surveys, 2017, 49, 1-42.	23.0	59
194	Self directed learning based workload forecasting model for cloud resource management. Information Sciences, 2021, 543, 345-366.	6.9	58
195	Deadline-aware and energy-efficient IoT task scheduling in fog computing systems: A semi-greedy approach. Journal of Network and Computer Applications, 2022, 201, 103333.	9.1	58
196	Single System Image. International Journal of High Performance Computing Applications, 2001, 15, 124-135.	3.7	57
197	Cost-Efficient and Robust On-Demand Video Transcoding Using Heterogeneous Cloud Services. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 556-571.	5.6	57
198	Container–based cluster orchestration systems: A taxonomy and future directions. Software - Practice and Experience, 2019, 49, 698-719.	3.6	57

#	Article	IF	Citations
199	Enhancing Reliability of Workflow Execution Using Task Replication and Spot Instances. ACM Transactions on Autonomous and Adaptive Systems, 2016, 10, 1-21.	0.8	57
200	Mandi: a market exchange for trading utility and cloud computing services. Journal of Supercomputing, 2013, 64, 1153-1174.	3.6	56
201	Scaling MapReduce Applications Across Hybrid Clouds to Meet Soft Deadlines. , 2013, , .		56
202	Green Cloud Framework for Improving Carbon Efficiency of Clouds. Lecture Notes in Computer Science, 2011, , 491-502.	1.3	56
203	Holistic resource management for sustainable and reliable cloud computing: An innovative solution to global challenge. Journal of Systems and Software, 2019, 155, 104-129.	4.5	55
204	Microservices-based IoT Application Placement within Heterogeneous and Resource Constrained Fog Computing Environments. , 2019, , .		55
205	A Novel Architecture for Realizing Grid Workflow using Tuple Spaces. , 0, , .		54
206	Special section: Federated resource management in grid and cloud computing systems. Future Generation Computer Systems, 2010, 26, 1189-1191.	7.5	54
207	An Online Algorithm for Task Offloading in Heterogeneous Mobile Clouds. ACM Transactions on Internet Technology, 2018, 18, 1-25.	4.4	54
208	ETAS: Energy and thermal€aware dynamic virtual machine consolidation in cloud data center with proactive hotspot mitigation. Concurrency Computation Practice and Experience, 2019, 31, e5221.	2.2	54
209	Software-Defined Network (SDN) Data Plane Security: Issues, Solutions, and Future Directions. , 2020, , 341-387.		54
210	Adapting Market-Oriented Scheduling Policies for Cloud Computing. Lecture Notes in Computer Science, 2010, , 351-362.	1.3	53
211	A novel energy-aware resource management technique using joint VM and container consolidation approach for green computing in cloud data centers. Simulation Modelling Practice and Theory, 2020, 104, 102127.	3.8	53
212	Hybrid Cryptographic Access Control for Cloud-Based EHR Systems. IEEE Cloud Computing, 2016, 3, 58-64.	3.9	52
213	QoS-aware Big service composition using MapReduce based evolutionary algorithm with guided mutation. Future Generation Computer Systems, 2018, 86, 1008-1018.	7.5	52
214	A Taxonomy of CDNs. Lecture Notes in Electrical Engineering, 2008, , 33-77.	0.4	52
215	Self managed virtual machine scheduling in Cloud systems. Information Sciences, 2018, 433-434, 381-400.	6.9	51
216	Open Sensor Web Architecture: Core Services. , 2006, , .		50

#	Article	IF	Citations
217	An Autonomous Reliability-Aware Negotiation Strategy for Cloud Computing Environments. , 2012, , .		50
218	Dynamic resource demand prediction and allocation in multi‚Äìtenant service clouds. Concurrency Computation Practice and Experience, 2016, 28, 4429-4442.	2.2	50
219	A Privacy-Preserving Mobile and Fog Computing Framework to Trace and Prevent COVID-19 Community Transmission. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3564-3575.	6.3	50
220	SOCCER: Self-Optimization of Energy-efficient Cloud Resources. Cluster Computing, 2016, 19, 1787-1800.	5.0	49
221	Resource Provisioning Based Scheduling Framework for Execution of Heterogeneous and Clustered Workloads in Clouds: from Fundamental to Autonomic Offering. Journal of Grid Computing, 2019, 17, 385-417.	3.9	49
222	Content Delivery Networks: State of the Art, Insights, and Imperatives. Lecture Notes in Electrical Engineering, 2008, , 3-32.	0.4	48
223	Revenue Maximization with Optimal Capacity Control in Infrastructure as a Service Cloud Markets. IEEE Transactions on Cloud Computing, 2015, 3, 261-274.	4.4	48
224	ElasticSFC: Auto-scaling techniques for elastic service function chaining in network functions virtualization-based clouds. Journal of Systems and Software, 2019, 152, 108-119.	4.5	47
225	Managing Cancellations and No-Shows of Reservations with Overbooking to Increase Resource Revenue. , 2008, , .		46
226	Priority-Aware VM Allocation and Network Bandwidth Provisioning in Software-Defined Networking (SDN)-Enabled Clouds. IEEE Transactions on Sustainable Computing, 2019, 4, 17-28.	3.1	46
227	Latency-aware Virtualized Network Function provisioning for distributed edge clouds. Journal of Systems and Software, 2019, 152, 24-31.	4.5	46
228	Cloud Pricing Models. ACM Computing Surveys, 2020, 52, 1-36.	23.0	46
229	Service Level Agreement (SLA) in Utility Computing Systems. , 2012, , 286-310.		46
230	Energy-Efficient Scheduling of Urgent Bag-of-Tasks Applications in Clouds through DVFS. , 2014, , .		45
231	An Auction Mechanism for Cloud Spot Markets. ACM Transactions on Autonomous and Adaptive Systems, 2016, 11, 1-33.	0.8	45
232	Thermal Prediction for Efficient Energy Management of Clouds Using Machine Learning. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 1044-1056.	5.6	45
233	Data Replication Strategies in Wide-Area Distributed Systems. , 2007, , 211-241.		45
234	Resource Allocation and Task Scheduling in Fog Computing and Internet of Everything Environments: A Taxonomy, Review, and Future Directions. ACM Computing Surveys, 2022, 54, 1-38.	23.0	45

#	Article	IF	Citations
235	Revenue Maximization Using Adaptive Resource Provisioning in Cloud Computing Environments. , 2012, , .		44
236	A Cloud Trust Evaluation System Using Hierarchical Fuzzy Inference System for Service Selection. , 2014, , .		44
237	Data Allocation Mechanism for Internet-of-Things Systems With Blockchain. IEEE Internet of Things Journal, 2020, 7, 3509-3522.	8.7	44
238	Internet of Health Things (IoHT) for personalized health care using integrated edge-fog-cloud network. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 943-959.	4.9	44
239	Blockchain-based trust management in cloud computing systems: a taxonomy, review and future directions. Journal of Cloud Computing: Advances, Systems and Applications, 2021, 10, .	3.9	44
240	A dependency-aware ontology-based approach for deploying service level agreement monitoring services in Cloud. Software - Practice and Experience, 2012, 42, 501-518.	3.6	43
241	A Volunteer-Supported Fog Computing Environment for Delay-Sensitive IoT Applications. IEEE Internet of Things Journal, 2021, 8, 3822-3830.	8.7	43
242	Performance and Cost-Efficient Spark Job Scheduling Based on Deep Reinforcement Learning in Cloud Computing Environments. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1695-1710.	5.6	43
243	PARMON: a portable and scalable monitoring system for clusters. Software - Practice and Experience, 2000, 30, 723-739.	3.6	42
244	An SCP-based heuristic approach for scheduling distributed data-intensive applications on global grids. Journal of Parallel and Distributed Computing, 2008, 68, 471-487.	4.1	42
245	Software-Defined Cloud Computing: Architectural elements and open challenges. , 2014, , .		42
246	EdgeLens: Deep Learning based Object Detection in Integrated IoT, Fog and Cloud Computing Environments. , 2019, , .		42
247	Managing renewable energy and carbon footprint in multi-cloud computing environments. Journal of Parallel and Distributed Computing, 2020, 135, 191-202.	4.1	42
248	Metaheuristics for scheduling of heterogeneous tasks in cloud computing environments: Analysis, performance evaluation, and future directions. Simulation Modelling Practice and Theory, 2021, 111, 102353.	3.8	42
249	Multiple Workflows Scheduling in Multi-tenant Distributed Systems. ACM Computing Surveys, 2021, 53, 1-39.	23.0	42
250	IoT-Enabled Flood Severity Prediction via Ensemble Machine Learning Models. IEEE Access, 2020, 8, 70375-70386.	4.2	41
251	Cluster computing: the commodity supercomputer. Software - Practice and Experience, 1999, 29, 551-576.	3.6	40
252	Peer-to-Peer Grid Computing and a .NET-Based Alchemi Framework. , 2006, , 403-429.		40

#	Article	IF	Citations
253	A Market-Oriented Grid Directory Service for Publication and Discovery of Grid Service Providers and their Services. Journal of Supercomputing, 2006, 36, 17-31.	3.6	40
254	A linear programming-driven genetic algorithm for meta-scheduling on utility grids. International Journal of Parallel, Emergent and Distributed Systems, 2011, 26, 493-517.	1.0	40
255	Cost-Effective Provisioning and Scheduling of Deadline-Constrained Applications in Hybrid Clouds. Lecture Notes in Computer Science, 2012, , 171-184.	1.3	40
256	Monitoring of cloud computing environments. , 2016, , .		40
257	Workload forecasting and energy state estimation in cloud data centres: ML-centric approach. Future Generation Computer Systems, 2022, 128, 320-332.	7.5	40
258	HealthCloud: A system for monitoring health status of heart patients using machine learning and cloud computing. Internet of Things (Netherlands), 2022, 17, 100485.	7.7	40
259	Machine learning (ML)-centric resource management in cloud computing: A review and future directions. Journal of Network and Computer Applications, 2022, 204, 103405.	9.1	40
260	Introduction to the IEEE Transactions on Cloud Computing. IEEE Transactions on Cloud Computing, 2013, 1, 3-21.	4.4	39
261	Application-aware end-to-end delay and message loss estimation in Internet of Things (IoT) â€”ÂMQTT-SN protocols. Future Generation Computer Systems, 2018, 89, 300-316.	7.5	39
262	Brownout Approach for Adaptive Management of Resources and Applications in Cloud Computing Systems. ACM Computing Surveys, 2020, 52, 1-27.	23.0	39
263	Hedonic Pricing of Cloud Computing Services. IEEE Transactions on Cloud Computing, 2021, 9, 182-196.	4.4	39
264	iFaaSBus: A Security- and Privacy-Based Lightweight Framework for Serverless Computing Using IoT and Machine Learning. IEEE Transactions on Industrial Informatics, 2022, 18, 3522-3529.	11.3	39
265	OP-MLB: An Online VM Prediction-Based Multi-Objective Load Balancing Framework for Resource Management at Cloud Data Center. IEEE Transactions on Cloud Computing, 2022, 10, 2804-2816.	4.4	39
266	Cooperative and decentralized workflow scheduling in global grids. Future Generation Computer Systems, 2010, 26, 753-768.	7.5	38
267	Industrial Internet of Things (IIoT) Applications of Edge and Fog Computing: A Review and Future Directions. Advances in Information Security, 2021, , 293-325.	1.2	38
268	An Autonomous Time-Dependent SLA Negotiation Strategy for Cloud Computing. Computer Journal, 2015, 58, 3202-3216.	2.4	37
269	Cloud-SEnergy: A bin-packing based multi-cloud service broker for energy efficient composition and execution of data-intensive applications. Sustainable Computing: Informatics and Systems, 2018, 19, 242-252.	2.2	37
270	Performance evaluation of live virtual machine migration in SDN-enabled cloud data centers. Journal of Parallel and Distributed Computing, 2019, 131, 55-68.	4.1	37

#	Article	IF	Citations
271	Machine Learning-based Orchestration of Containers: A Taxonomy and Future Directions. ACM Computing Surveys, 2022, 54, 1-35.	23.0	37
272	QoS-aware placement of microservices-based IoT applications in Fog computing environments. Future Generation Computer Systems, 2022, 131, 121-136.	7.5	37
273	Performance analysis of allocation policies for interGrid resource provisioning. Information and Software Technology, 2009, 51, 42-55.	4.4	36
274	A taxonomy and survey on autonomic management of applications in grid computing environments. Concurrency Computation Practice and Experience, 2011, 23, 1990-2019.	2.2	36
275	Virtual Machine Customization and Task Mapping Architecture for Efficient Allocation of Cloud Data Center Resources. Computer Journal, 2016, 59, 208-224.	2.4	36
276	E-eco: Performance-aware energy-efficient cloud data center orchestration. Journal of Network and Computer Applications, 2017, 78, 83-96.	9.1	36
277	Failure Management for Reliable Cloud Computing: A Taxonomy, Model, and Future Directions. Computing in Science and Engineering, 2020, 22, 52-63.	1.2	36
278	GRVMP: A Greedy Randomized Algorithm for Virtual Machine Placement in Cloud Data Centers. IEEE Systems Journal, 2021, 15, 2571-2582.	4.6	36
279	ADRL: A Hybrid Anomaly-Aware Deep Reinforcement Learning-Based Resource Scaling in Clouds. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 514-526.	5.6	36
280	Resource Management and Scheduling in Distributed Stream Processing Systems. ACM Computing Surveys, 2021, 53, 1-41.	23.0	36
281	A Case for Peering of Content Delivery Networks. IEEE Distributed Systems Online, 2006, 7, 3-3.	0.5	35
282	Metropolitan intelligent surveillance systems for urban areas by harnessing IoT and edge computing paradigms. Software - Practice and Experience, 2018, 48, 1475-1492.	3.6	35
283	An Energy and Performance Aware Consolidation Technique for Containerized Datacenters. IEEE Transactions on Cloud Computing, 2021, 9, 1305-1322.	4.4	35
284	ThermoSim: Deep learning based framework for modeling and simulation of thermal-aware resource management for cloud computing environments. Journal of Systems and Software, 2020, 166, 110596.	4.5	35
285	Online virtual machine migration for renewable energy usage maximization in geographically distributed cloud dataÂcenters. Concurrency Computation Practice and Experience, 2017, 29, e4125.	2.2	34
286	On minimizing total energy consumption in the scheduling of virtual machine reservations. Journal of Network and Computer Applications, 2018, 113, 64-74.	9.1	34
287	Dynamic Virtual Machine Consolidation Algorithms for Energy-Efficient Cloud Resource Management: A Review. , 2018, , 135-165.		34
288	Emergent Failures: Rethinking Cloud Reliability at Scale. IEEE Cloud Computing, 2018, 5, 12-21.	3.9	34

#	Article	IF	Citations
289	QoS-aware secure transaction framework for internet of things using blockchain mechanism. Journal of Network and Computer Applications, 2019, 144, 59-78.	9.1	34
290	Elastic Load Balancing for Dynamic Virtual Machine Reconfiguration Based on Vertical and Horizontal Scaling. IEEE Transactions on Services Computing, 2019, 12, 319-334.	4.6	34
291	QoS-aware service provisioning in fog computing. Journal of Network and Computer Applications, 2020, 165, 102674.	9.1	34
292	Cost-efficient dynamic scheduling of big data applications in apache spark on cloud. Journal of Systems and Software, 2020, 162, 110515.	4.5	34
293	Cluster Computing: High-Performance, High-Availability, and High-Throughput Processing on a Network of Computers. , 2006, , 521-551.		34
294	SLA-Based Advance Reservations with Flexible and Adaptive Time QoS Parameters. Lecture Notes in Computer Science, 2007, , 119-131.	1.3	34
295	Decentralized Overlay for Federation of Enterprise Clouds. , 2010, , 191-217.		34
296	Brokering Algorithms for Optimizing the Availability and Cost of Cloud Storage Services. , 2013, , .		33
297	Combating DDoS Attacks in the Cloud: Requirements, Trends, and Future Directions. IEEE Cloud Computing, 2017, 4, 22-32.	3.9	33
298	A Trust-Based Agent Learning Model for Service Composition in Mobile Cloud Computing Environments. IEEE Access, 2019, 7, 34207-34226.	4.2	33
299	Fog-Based Smart Healthcare as a Big Data and Cloud Service for Heart Patients Using IoT. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 1376-1383.	0.7	33
300	HUNTER: AI based holistic resource management for sustainable cloud computing. Journal of Systems and Software, 2022, 184, 111124.	4.5	33
301	A Holistic View on Resource Management in Serverless Computing Environments: Taxonomy and Future Directions. ACM Computing Surveys, 2022, 54, 1-36.	23.0	33
302	Service and Utility Oriented Distributed Computing Systems: Challenges and Opportunities for Modeling and Simulation Communities. Simulation Symposium, Proceedings of the Annual, 2008, , .	0.0	32
303	Minimizing Execution Costs when Using Globally Distributed Cloud Services. , 2010, , .		32
304	Maximum revenue-oriented resource allocation in cloud. International Journal of Grid and Utility Computing, 2016, 7, 12.	0.2	32
305	An Inter-Cloud Meta-Scheduling (ICMS) Simulation Framework: Architecture and Evaluation. IEEE Transactions on Services Computing, 2018, 11, 5-19.	4.6	32
306	Optimal Fitness Aware Cloud Service Composition using an Adaptive Genotypes Evolution based Genetic Algorithm. Future Generation Computer Systems, 2019, 94, 185-198.	7.5	32

#	Article	IF	Citations
307	BFIM: Performance Measurement of a Blockchain Based Hierarchical Tree Layered Fog-IoT Microservice Architecture. IEEE Access, 2021, 9, 106655-106674.	4.2	32
308	SLA-Based Coordinated Superscheduling Scheme for Computational Grids. , 2006, , .		31
309	A grid workflow environment for brain imaging analysis on distributed systems. Concurrency Computation Practice and Experience, 2009, 21, 2118-2139.	2.2	31
310	Efficient Virtual Machine Sizing for Hosting Containers as a Service (SERVICES 2015). , 2015, , .		31
311	CVSS: A Cost-Efficient and QoS-Aware Video Streaming Using Cloud Services. , 2016, , .		31
312	On the effectiveness of isolationâ€based anomaly detection in cloud data centers. Concurrency Computation Practice and Experience, 2017, 29, e4169.	2.2	31
313	An algorithm for network and data-aware placement of multi-tier applications in cloud data centers. Journal of Network and Computer Applications, 2017, 98, 65-83.	9.1	31
314	An adaptive multi-objective evolutionary algorithm for constrained workflow scheduling in Clouds. Distributed and Parallel Databases, 2018, 36, 339-368.	1.6	31
315	A Fuzzy Logic-Based Controller for Cost and Energy Efficient Load Balancing in Geo-distributed Data Centers. , 2015, , .		31
316	AN EVALUATION OF COMMUNICATION DEMAND OF AUCTION PROTOCOLS IN GRID ENVIRONMENTS. , 2006, , .		31
317	A Distributed Deep Reinforcement Learning Technique for Application Placement in Edge and Fog Computing Environments. IEEE Transactions on Mobile Computing, 2023, 22, 2491-2505.	5.8	31
318	Semantic-based Grid Resource Discovery and its Integration with the Grid Service Broker. , 2006, , .		30
319	A Heuristic for Mapping Virtual Machines and Links in Emulation Testbeds. , 2009, , .		30
320	CloudSimSDNâ€NFV: Modeling and simulation of network function virtualization and service function chaining in edge computing environments. Software - Practice and Experience, 2019, 49, 1748-1764.	3.6	30
321	Scheduling IoT Applications in Edge and Fog Computing Environments: A Taxonomy and Future Directions. ACM Computing Surveys, 2023, 55, 1-41.	23.0	30
322	SLA-Aware Provisioning and Scheduling of Cloud Resources for Big Data Analytics. , 2014, , .		29
323	Energy-traffic tradeoff cooperative offloading for mobile cloud computing. , 2014, , .		29
324	CloudPick: a framework for QoSâ€aware and ontologyâ€based service deployment across clouds. Software - Practice and Experience, 2015, 45, 197-231.	3.6	29

#	Article	IF	Citations
325	To move or not to move: Cost optimization in a dual cloud-based storage architecture. Journal of Network and Computer Applications, 2016, 75, 223-235.	9.1	29
326	BrownoutCon: A software system based on brownout and containers for energy-efficient cloud computing. Journal of Systems and Software, 2019, 155, 91-103.	4.5	29
327	IoT-CANE: A unified knowledge management system for data-centric Internet of Things application systems. Journal of Parallel and Distributed Computing, 2019, 131, 161-172.	4.1	29
328	Agri-Info: Cloud Based Autonomic System for Delivering Agriculture as a Service. Internet of Things (Netherlands), 2020, 9, 100131.	7.7	29
329	epcAware: A Game-Based, Energy, Performance and Cost-Efficient Resource Management Technique for Multi-Access Edge Computing. IEEE Transactions on Services Computing, 2022, 15, 1634-1648.	4.6	29
330	Ensemble learning based predictive framework for virtual machine resource request prediction. Neurocomputing, 2020, 397, 20-30.	5.9	29
331	Uncertainty-aware Decisions in Cloud Computing. ACM Computing Surveys, 2022, 54, 1-30.	23.0	29
332	Artificial Intelligence-based Internet of Things for Industry 5.0. Internet of Things, 2022, , 3-45.	1.7	29
333	Neuroscience instrumentation and distributed analysis of brain activity data: a case for eScience on global Grids. Concurrency Computation Practice and Experience, 2005, 17, 1783-1798.	2.2	28
334	A Decentralized and Cooperative Workflow Scheduling Algorithm. , 2008, , .		28
335	CycloidGrid: A proximity-aware P2P-based resource discovery architecture in volunteer computing systems. Future Generation Computer Systems, 2013, 29, 1583-1595.	7.5	28
336	Energy Efficient Scheduling of Cloud Application Components with Brownout. IEEE Transactions on Sustainable Computing, 2016, 1, 40-53.	3.1	28
337	Service resizing for quick DDoS mitigation in cloud computing environment. Annales Des Telecommunications/Annals of Telecommunications, 2017, 72, 237-252.	2.5	28
338	A Self-Adaptive Approach for Managing Applications and Harnessing Renewable Energy for Sustainable Cloud Computing. IEEE Transactions on Sustainable Computing, 2021, 6, 544-558.	3.1	28
339	Network-Aware Virtual Machine Placement and Migration in Cloud Data Centers. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2015, , 42-91.	0.5	28
340	Integrated Risk Analysis for a Commercial Computing Service. , 2007, , .		27
341	Double auction-inspired meta-scheduling of parallel applications on global grids. Journal of Parallel and Distributed Computing, 2013, 73, 450-464.	4.1	27
342	Task granularity policies for deploying bag-of-task applications on global grids. Future Generation Computer Systems, 2013, 29, 170-181.	7.5	27

#	Article	IF	Citations
343	SLA-Based Resource Scheduling for Big Data Analytics as a Service in Cloud Computing Environments. , 2015, , .		27
344	Rethinking elastic online scheduling of big data streaming applications over high-velocity continuous data streams. Journal of Supercomputing, 2018, 74, 615-636.	3.6	27
345	iBrownout: An Integrated Approach for Managing Energy and Brownout in Container-Based Clouds. IEEE Transactions on Sustainable Computing, 2019, 4, 53-66.	3.1	27
346	MLPAM: A Machine Learning and Probabilistic Analysis Based Model for Preserving Security and Privacy in Cloud Environment. IEEE Systems Journal, 2021, 15, 4248-4259.	4.6	27
347	A blockchain-based Fog-oriented lightweight framework for smart public vehicular transportation systems. Computer Networks, 2022, 203, 108676.	5.1	27
348	Software Rejuvenation Based Fault Tolerance Scheme for Cloud Applications. , 2015, , .		26
349	D-Storm: Dynamic Resource-Efficient Scheduling of Stream Processing Applications. , 2017, , .		26
350	A Deadline-Constrained Multi-Objective Task Scheduling Algorithm in Mobile Cloud Environments. IEEE Access, 2018, 6, 52982-52996.	4.2	26
351	RADAR: Selfâ€configuring and selfâ€healing in resource management for enhancing quality of cloud services. Concurrency Computation Practice and Experience, 2019, 31, e4834.	2.2	26
352	Energy Efficient Algorithms based on VM Consolidation for Cloud Computing: Comparisons and Evaluations. , 2020, , .		26
353	Secure Data Storage and Sharing Techniques for Data Protection in Cloud Environments: A Systematic Review, Analysis, and Future Directions. IEEE Access, 2022, 10, 71247-71277.	4.2	26
354	A Case for Cooperative and Incentive-Based Coupling of Distributed Clusters. , 2005, , .		25
355	Offer-based scheduling of deadline-constrained Bag-of-Tasks applications for utility computing systems. , 2009, , .		25
356	Clabacus: A Risk-Adjusted Cloud Resources Pricing Model Using Financial Option Theory. IEEE Transactions on Cloud Computing, 2015, 3, 332-344.	4.4	25
357	A data-centric framework for development and deployment of Internet of Things applications in clouds. , 2015, , .		25
358	C2OF2N: a low power cooperative code offloading method for femtolet-based fog network. Journal of Supercomputing, 2018, 74, 2412-2448.	3.6	25
359	SECURE: Self-Protection Approach in Cloud Resource Management. IEEE Cloud Computing, 2018, 5, 60-72.	3.9	25
360	Task Runtime Prediction in Scientific Workflows Using an Online Incremental Learning Approach. , 2018, , .		25

#	Article	IF	Citations
361	A Holistic Evaluation of Docker Containers for Interfering Microservices. , 2018, , .		25
362	Detecting performance anomalies in scientific workflows using hierarchical temporal memory. Future Generation Computer Systems, 2018, 88, 624-635.	7.5	25
363	Dynamic replication and migration of data objects with hot-spot and cold-spot statuses across storage data centers. Journal of Parallel and Distributed Computing, 2019, 126, 121-133.	4.1	25
364	Heterogeneous Job Allocation Scheduler for Hadoop MapReduce Using Dynamic Grouping Integrated Neighboring Search. IEEE Transactions on Cloud Computing, 2020, 8, 193-206.	4.4	25
365	Gaussian Distribution-Based Machine Learning Scheme for Anomaly Detection in Healthcare Sensor Cloud. International Journal of Cloud Applications and Computing, 2021, 11, 52-72.	2.0	25
366	A scheduling-based dynamic fog computing framework for augmenting resource utilization. Simulation Modelling Practice and Theory, 2021, 111, 102336.	3.8	25
367	Decentralised Resource Discovery Service for Large Scale Federated Grids. , 2007, , .		24
368	MapReduce Programming Model for .NET-Based Cloud Computing. Lecture Notes in Computer Science, 2009, , 417-428.	1.3	24
369	Simurgh: A framework for effective discovery, programming, and integration of services exposed in IoT. , 2015, , .		24
370	Location-aware brokering for consumers in multi-cloud computing environments. Journal of Network and Computer Applications, 2017, 95, 79-93.	9.1	24
371	dSpark: Deadline-Based Resource Allocation for Big Data Applications in Apache Spark. , 2017, , .		24
372	MARIO: A spatio-temporal data mining framework on Google Cloud to explore mobility dynamics from taxi trajectories. Journal of Network and Computer Applications, 2020, 164, 102692.	9.1	24
373	Extending GridSim with an architecture for failure detection. , 2007, , .		23
374	A Responsive Knapsack-Based Algorithm for Resource Provisioning and Scheduling of Scientific Workflows in Clouds. , 2015, , .		23
375	HScheduler: an optimal approach to minimize the makespan of multiple MapReduce jobs. Journal of Supercomputing, 2016, 72, 2376-2393.	3.6	23
376	A Context-Aware Fog Enabled Scheme for Real-Time Cross-Vertical IoT Applications. IEEE Internet of Things Journal, 2019, 6, 2400-2412.	8.7	23
377	Performance-Oriented Deployment of Streaming Applications on Cloud. IEEE Transactions on Big Data, 2019, 5, 46-59.	6.1	23
378	A Reinforcement Learning Approach to Reduce Serverless Function Cold Start Frequency. , 2021, , .		23

#	Article	IF	Citations
379	MUD-Based Behavioral Profiling Security Framework for Software-Defined IoT Networks. IEEE Internet of Things Journal, 2022, 9, 6611-6622.	8.7	23
380	A Deadline and Budget Constrained Scheduling Algorithm for eScience Applications on Data Grids. Lecture Notes in Computer Science, 2005, , 60-72.	1.3	23
381	A Set Coverage-based Mapping Heuristic for Scheduling Distributed Data-Intensive Applications on Global Grids. , 2006, , .		22
382	A Sensor Web Middleware with Stateful Services for Heterogeneous Sensor Networks. , 2007, , .		22
383	Using Revenue Management to Determine Pricing of Reservations. , 2007, , .		22
384	A case for cooperative and incentive-based federation of distributed clusters. Future Generation Computer Systems, 2008, 24, 280-295.	7.5	22
385	Financial Option Market Model for Federated Cloud Environments. , 2012, , .		22
386	A collaborative filtering recommendation method based on discrete quantum-inspired shuffled frog leaping algorithms in social networks. Future Generation Computer Systems, 2018, 88, 262-270.	7.5	22
387	SDCon: Integrated Control Platform for Software-Defined Clouds. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 230-244.	5.6	22
388	Advanced QoS methods for Grid workflows based on meta-negotiations and SLA-mappings. , 2008, , .		21
389	Model-based simulation and performance evaluation of grid scheduling strategies. Future Generation Computer Systems, 2009, 25, 460-465.	7.5	21
390	CloudNetSim++: A toolkit for data center simulations in OMNET++. , 2014, , .		21
391	An auction-based incentive mechanism for heterogeneous mobile clouds. Journal of Systems and Software, 2019, 152, 151-164.	4.5	21
392	QuickDedup: Efficient VM deduplication in cloud computing environments. Journal of Parallel and Distributed Computing, 2020, 139, 18-31.	4.1	21
393	SLA-aware multiple migration planning and scheduling in SDN-NFV-enabled clouds. Journal of Systems and Software, 2021, 176, 110943.	4.5	21
394	Securing the future internet of things with postâ€quantum cryptography. Security and Privacy, 2022, 5, .	2.7	21
395	RCT: A distributed tree for supporting efficient range and multi-attribute queries in grid computing. Future Generation Computer Systems, 2008, 24, 631-643.	7.5	20
396	QoS-aware Deployment of Network of Virtual Appliances Across Multiple Clouds. , 2011, , .		20

#	Article	IF	Citations
397	Automated SLA Negotiation Framework for Cloud Computing. , 2013, , .		20
398	DVFS-Aware Consolidation for Energy-Efficient Clouds. , 2015, , .		20
399	A Taxonomy and Survey of Fault-Tolerant Workflow Management Systems in Cloud and Distributed Computing Environments. , 2017, , 285-320.		20
400	An Efficient Multi-Cloud Service Composition Using a Distributed Multiagent-Based, Memory-Driven Approach. IEEE Transactions on Sustainable Computing, 2021, 6, 358-369.	3.1	20
401	CGP: Cluster-based gossip protocol for dynamic resource environment in cloud. Simulation Modelling Practice and Theory, 2021, 108, 102275.	3.8	20
402	FogBus2. , 2021, , .		20
403	Aneka Cloud Application Platform and Its Integration with Windows Azure. , 2011, , 645-679.		20
404	Global Grids and Software Toolkits: A Study of Four Grid Middleware Technologies. , 2006, , 431-458.		19
405	GarQ: An efficient scheduling data structure for advance reservations of grid resources. International Journal of Parallel, Emergent and Distributed Systems, 2009, 24, 1-19.	1.0	19
406	An economic replica placement mechanism for streaming content distribution in Hybrid CDN-P2P networks. Computer Communications, 2014, 52, 60-70.	5.1	19
407	Big Data Analytics-Enhanced Cloud Computing: Challenges, Architectural Elements, and Future Directions. , 2015, , .		19
408	HeporCloud: An energy and performance efficient resource orchestrator for hybrid heterogeneous cloud computing environments. Journal of Network and Computer Applications, 2021, 173, 102869.	9.1	19
409	Reliability-Enhanced Task Offloading in Mobile Edge Computing Environments. IEEE Internet of Things Journal, 2022, 9, 10382-10396.	8.7	19
410	Maximizing Utility for Content Delivery Clouds. Lecture Notes in Computer Science, 2009, , 13-28.	1.3	19
411	Provisioning Spot Market Cloud Resources to Create Cost-Effective Virtual Clusters. Lecture Notes in Computer Science, 2011, , 395-408.	1.3	19
412	A Stepwise Auto-Profiling Method for Performance Optimization of Streaming Applications. ACM Transactions on Autonomous and Adaptive Systems, 2018, 12, 1-33.	0.8	19
413	Designing a resource broker for heterogeneous grids. Software - Practice and Experience, 2008, 38, 793-825.	3.6	18
414	Ontologyâ€based Grid resource management. Software - Practice and Experience, 2009, 39, 1419-1438.	3.6	18

#	Article	IF	Citations
415	Resource discovery and request-redirection for dynamic load sharing in multi-provider peering content delivery networks. Journal of Network and Computer Applications, 2009, 32, 976-990.	9.1	18
416	Preemption-Aware Energy Management in Virtualized Data Centers. , 2012, , .		18
417	Computational Offloading or Data Binding? Bridging the Cloud Infrastructure to the Proximity of the Mobile User. , 2014, , .		18
418	An economic mechanism for request routing and resource allocation in hybrid CDN–P2P networks. International Journal of Network Management, 2015, 25, 375-393.	2.2	18
419	Improving Productivity in Design and Development of Information Technology (IT) Service Delivery Simulation Models. Journal of Service Research, 2015, 18, 75-89.	12.2	18
420	Novel Scheduling Algorithms for Efficient Deployment of MapReduce Applications in Heterogeneous Computing Environments. IEEE Transactions on Cloud Computing, 2018, 6, 1080-1095.	4.4	18
421	Quality of Service (QoS)-driven resource provisioning for large-scale graph processing in cloud computing environments: Graph Processing-as-a-Service (GPaaS). Future Generation Computer Systems, 2019, 96, 490-501.	7.5	18
422	ARC: Anomaly-aware Robust Cloud-integrated IoT service composition based on uncertainty in advertised quality of service values. Journal of Systems and Software, 2020, 164, 110557.	4.5	18
423	Deadline-aware Dynamic Resource Management in Serverless Computing Environments. , 2021, , .		18
424	Load and Proximity Aware Request-Redirection for Dynamic Load Distribution in Peering CDNs. Lecture Notes in Computer Science, 2008, , 62-81.	1.3	18
425	Energy-SLA-aware genetic algorithm for edge–cloud integrated computation offloading in vehicular networks. Future Generation Computer Systems, 2022, 135, 205-222.	7.5	18
426	An architecture for virtual organization (VO)-based effective peering of content delivery networks. , 2007, , .		17
427	Scheduling of Scientific Workflows on Data Grids. , 2008, , .		17
428	A Meta-scheduler with Auction Based Resource Allocation for Global Grids. , 2008, , .		17
429	Group-based adaptive result certification mechanism in Desktop Grids. Future Generation Computer Systems, 2010, 26, 776-786.	7.5	17
430	Jaccard Index based availability prediction in enterprise grids. Procedia Computer Science, 2010, 1, 2707-2716.	2.0	17
431	Reputation-based dependable scheduling of workflow applications in Peer-to-Peer Grids. Computer Networks, 2010, 54, 3341-3359.	5.1	17
432	Cloud Resource Provisioning to Extend the Capacity of Local Resources in the Presence of Failures. , 2012, , .		17

#	Article	IF	Citations
433	Resource provisioning based on preempting virtual machines in distributed systems. Concurrency Computation Practice and Experience, 2014, 26, 412-433.	2.2	17
434	ACAS: An anomaly-based cause aware auto-scaling framework for clouds. Journal of Parallel and Distributed Computing, 2019, 126, 107-120.	4.1	17
435	Shared data-aware dynamic resource provisioning and task scheduling for data intensive applications on hybrid clouds using Aneka. Future Generation Computer Systems, 2020, 106, 595-606.	7.5	17
436	Software-Defined Security-by-Contract for Blockchain-Enabled MUD-Aware Industrial IoT Edge Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 7068-7076.	11.3	17
437	Feasibility of Fog Computing. Scalable Computing and Communications, 2020, , 127-146.	0.5	17
438	Edge Affinity-based Management of Applications in Fog Computing Environments. , 2019, , .		17
439	Visual Modeler for Grid Modeling and Simulation (GridSim) Toolkit. Lecture Notes in Computer Science, 2003, , 1123-1132.	1.3	16
440	Fair resource sharing in hierarchical virtual organizations for global grids. , 2007, , .		16
441	Enhancing performance of failure-prone clusters by adaptive provisioning of cloud resources. Journal of Supercomputing, 2013, 63, 467-489.	3.6	16
442	Semantic-enabled CARE Resource Broker (SeCRB) for managing grid and cloud environment. Journal of Supercomputing, 2014, 68, 509-556.	3.6	16
443	MELODY-JOIN: Efficient Earth Mover's Distance similarity joins using MapReduce. , 2014, , .		16
444	Workload-aware incremental repartitioning of shared-nothing distributed databases for scalable OLTP applications. Future Generation Computer Systems, 2016, 56, 421-435.	7.5	16
445	CloudNetSim++: A GUI Based Framework for Modeling and Simulation of Data Centers in OMNeT++. IEEE Transactions on Services Computing, 2017, 10, 506-519.	4.6	16
446	CLOUDS-Pi: A Low-Cost Raspberry-Pi based Micro Data Center for Software-Defined Cloud Computing. IEEE Cloud Computing, 2018, 5, 81-91.	3.9	16
447	A fog-driven dynamic resource allocation technique in ultra dense femtocell networks. Journal of Network and Computer Applications, 2019, 145, 102407.	9.1	16
448	Advanced Reservation-Based Scheduling of Task Graphs on Clusters. Lecture Notes in Computer Science, 2006, , 60-71.	1.3	16
449	Service composition in dynamic environments: A systematic review and future directions. Journal of Systems and Software, 2022, 188, 111290.	4.5	16
450	GridCrypt: High Performance Symmetric Key Cryptography Using Enterprise Grids. Lecture Notes in Computer Science, 2004, , 872-877.	1.3	15

#	Article	IF	Citations
451	A SLA-Oriented Management of Containers for Hosting Stateful Web Services. , 2007, , .		15
452	QoS and preemption aware scheduling in federated and virtualized Grid computing environments. Journal of Parallel and Distributed Computing, 2012, 72, 231-245.	4.1	15
453	Multi-cloud resource provisioning with Aneka: A unified and integrated utilisation of microsoft azure and amazon EC2 instances. , 2015, , .		15
454	<sc>Heads-Join:</sc> Efficient Earth Mover's Distance Similarity Joins on Hadoop. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1660-1673.	5.6	15
455	Mitigating impact of shortâ€term overload on multiâ€cloud web applications through geographical load balancing. Concurrency Computation Practice and Experience, 2017, 29, e4126.	2.2	15
456	XHAMI - extended HDFS and MapReduce interface for Big Data image processing applications in cloud computing environments. Software - Practice and Experience, 2017, 47, 455-472.	3.6	15
457	Availability-Aware Virtual Cluster Allocation in Bandwidth-Constrained Datacenters. IEEE Transactions on Services Computing, 2020, 13, 425-436.	4.6	15
458	Automated Controller Placement for Software-Defined Networks to Resist DDoS Attacks. Computers, Materials and Continua, 2021, 68, 3147-3165.	1.9	15
459	Secure Healthcare Monitoring Sensor Cloud With Attribute-Based Elliptical Curve Cryptography. International Journal of Cloud Applications and Computing, 2021, 11, 1-18.	2.0	15
460	Service Level Agreement (SLA) in Utility Computing Systems. Advances in Web Technologies and Engineering Book Series, 2012, , 1-25.	0.4	15
461	Rescheduling co-allocation requests based on flexible advance reservations and processor remapping. , 2008, , .		14
462	A Linear Programming Driven Genetic Algorithm for Meta-Scheduling on Utility Grids. , 2008, , .		14
463	Architecture and performance models for QoS-driven effective peering of content delivery networks. Multiagent and Grid Systems, 2009, 5, 165-195.	0.9	14
464	A Heuristic Approach for Capacity Control in Clouds. , 2009, , .		14
465	SLA-Based Scheduling of Bag-of-Tasks Applications on Power-Aware Cluster Systems. IEICE Transactions on Information and Systems, 2010, E93.D, 3194-3201.	0.7	14
466	An Architecture for Federated Cloud Computing. , 2011, , 391-411.		14
467	Coordinated rescheduling of Bagâ€ofâ€Tasks for executions on multiple resource providers. Concurrency Computation Practice and Experience, 2012, 24, 1362-1376.	2.2	14
468	A note on resource orchestration for cloud computing. Concurrency Computation Practice and Experience, 2015, 27, 2370-2372.	2.2	14

#	Article	IF	Citations
469	Multi-Tenant Cloud Service Composition Using Evolutionary Optimization. , 2018, , .		14
470	A Fuzzy-Based Auto-scaler for Web Applications in Cloud Computing Environments. Lecture Notes in Computer Science, 2018, , 797-811.	1.3	14
471	IoT-F2N: An energy-efficient architectural model for IoT using Femtolet-based fog network. Journal of Supercomputing, 2019, 75, 7125-7146.	3.6	14
472	Bio-Inspired Algorithms for Big Data Analytics: A Survey, Taxonomy, and Open Challenges. , 2019, , 1-17.		14
473	Spatio-Fog: A green and timeliness-oriented fog computing model for geospatial query resolution. Simulation Modelling Practice and Theory, 2020, 100, 102043.	3.8	14
474	A Survey and Taxonomy of Energy Efficient Resource Management Techniques in Platform as a Service Cloud. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2017, , 410-454.	0.5	14
475	Ten Lessons from Finance for Commercial Sharing of IT Resources. , 0, , 244-264.		14
476	An Iterative Optimization Framework for Adaptive Workflow Management in Computational Clouds. , 2013, , .		13
477	Index Generation and Secure Multi-user Access Control over an Encrypted Cloud Data. Procedia Computer Science, 2016, 89, 293-300.	2.0	13
478	TDRM: tensor-based data representation and mining for healthcare data in cloud computing environments. Journal of Supercomputing, 2018, 74, 592-614.	3.6	13
479	Exploiting user provided information in dynamic consolidation of virtual machines to minimize energy consumption of cloud data centers. , 2018, , .		13
480	Heterogeneous Task Co-location in Containerized Cloud Computing Environments. , 2020, , .		13
481	Energy Efficient Computing Systems: Architectures, Abstractions and Modeling to Techniques and Standards. ACM Computing Surveys, 2022, 54, 1-37.	23.0	13
482	Creating a 'Cloud Storage' Mashup for High Performance, Low Cost Content Delivery. Lecture Notes in Computer Science, 2009, , 178-183.	1.3	12
483	Reliability-Oriented Genetic Algorithm for Workflow Applications Using Max-Min Strategy. , 2009, , .		12
484	Coordinated load management in Peer-to-Peer coupled federated grid systems. Journal of Supercomputing, 2012, 61, 292-316.	3.6	12
485	MSIGT: Most Significant Index Generation Technique for cloud environment. , 2015, , .		12
486	E-Storm: Replication-Based State Management in Distributed Stream Processing Systems. , 2017, , .		12

#	Article	IF	Citations
487	Performance-Aware Management of Cloud Resources. ACM Computing Surveys, 2020, 52, 1-37.	23.0	12
488	CLAWER: Context-aware Cloud-Fog based Workflow Management Framework for Health Emergency Services. , 2020, , .		12
489	A study on the evaluation of HPC microservices in containerized environment. Concurrency Computation Practice and Experience, 2021, 33, 1-1.	2.2	12
490	Inverse Queuing Model-Based Feedback Control for Elastic Container Provisioning of Web Systems in Kubernetes. IEEE Transactions on Computers, 2022, 71, 337-348.	3.4	12
491	SLA-Based Scheduling of Spark Jobs in Hybrid Cloud Computing Environments. IEEE Transactions on Computers, 2022, 71, 1117-1132.	3.4	12
492	DoSP: A Deadline-Aware Dynamic Service Placement Algorithm for Workflow-Oriented IoT Applications in Fog-Cloud Computing Environments. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 21-47.	0.7	12
493	Energy Efficient Scheduling of Application Components via Brownout and Approximate Markov Decision Process. Lecture Notes in Computer Science, 2017, , 206-220.	1.3	12
494	Energy and Carbon Footprint-Aware Management of Geo-Distributed Cloud Data Centers. Advances in Data Mining and Database Management Book Series, 2017, , 27-46.	0.5	12
495	Energy and Carbon Footprint-Aware Management of Geo-Distributed Cloud Data Centers. , 0, , 1456-1475.		12
496	A Deep Reinforcement Learning Approach to Resource Management in Hybrid Clouds Harnessing Renewable Energy and Task Scheduling. , 2021, , .		12
497	RESCUE: Enabling green healthcare services using integrated IoТâ€edgeâ€fogâ€cloud computing environments. Software - Practice and Experience, 2022, 52, 1615-1642.	3.6	12
498	On Elasticity Measurement in Cloud Computing. Scientific Programming, 2016, 2016, 1-13.	0.7	11
499	SAIoT: Scalable Anomaly-Aware Services Composition in CloudIoT Environments. IEEE Internet of Things Journal, 2021, 8, 3665-3677.	8.7	11
500	Online cloud resource prediction via scalable window waveform sampling on classified workloads. Future Generation Computer Systems, 2021, 117, 338-358.	7.5	11
501	Storage Exchange: A Global Trading Platform for Storage Services. Lecture Notes in Computer Science, 2006, , 425-436.	1.3	11
502	On-Line Task Granularity Adaptation for Dynamic Grid Applications. Lecture Notes in Computer Science, 2010, , 266-277.	1.3	11
503	Container Orchestration With Cost-Efficient Autoscaling in Cloud Computing Environments. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 190-213.	0.5	11
504	<scp>IoТâ€Рi</scp>: A machine learningâ€based lightweight framework for costâ€effective distributed computing using <scp>IoT</scp>. Internet Technology Letters, 2022, 5, .	1.9	11

#	Article	IF	Citations
505	Engineering an Autonomic Container for WSRF-Based Web Services. , 2007, , .		10
506	Integrated Risk Analysis for a Commercial Computing Service in Utility Computing. Journal of Grid Computing, 2009, 7, 1-24.	3.9	10
507	Use of run time predictions for automatic co-allocation of multi-cluster resources for iterative parallel applications. Journal of Parallel and Distributed Computing, 2011, 71, 1388-1399.	4.1	10
508	Scheduling Workflow Applications Based on Multi-source Parallel Data Retrieval in Distributed Computing Networks. Computer Journal, 2012, 55, 1288-1308.	2.4	10
509	A two phased service oriented Broker for replica selection in data grids. Future Generation Computer Systems, 2013, 29, 953-972.	7.5	10
510	An environment for modeling and simulation of messageâ€passing parallel applications for cloud computing. Software - Practice and Experience, 2013, 43, 1359-1375.	3.6	10
511	Outsourcing Resource-Intensive Tasks from Mobile Apps to Clouds: Android and Aneka Integration. , 2014, , .		10
512	A note on software tools and techniques for monitoring and prediction of cloud services. Software - Practice and Experience, 2014, 44, 771-775.	3.6	10
513	Modeling cloud business customersâ€™ utility functions. Future Generation Computer Systems, 2020, 105, 737-753.	7.5	10
514	Blockchain-Enhanced Fair Task Scheduling for Cloud-Fog-Edge Coordination Environments: Model and Algorithm. Security and Communication Networks, 2021, 2021, 1-18.	1.5	10
515	SDN Enabled QoE and Security Framework for Multimedia Applications in 5G Networks. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-29.	4.3	10
516	Performance Analysis of Multiple Site Resource Provisioning: Effects of the Precision of Availability Information. Lecture Notes in Computer Science, 2008, , 157-168.	1.3	10
517	CAMIG: Concurrency-Aware Live Migration Management of Multiple Virtual Machines in SDN-Enabled Clouds. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 2318-2331.	5.6	10
518	A secure drone-to-drone communication and software defined drone network-enabled traffic monitoring system. Simulation Modelling Practice and Theory, 2022, 120, 102621.	3.8	10
519	Policy-based Resource Allocation in Hierarchical Virtual Organizations for Global Grids. , 2006, , .		9
520	The Virtual Kidney: an eScience interface and Grid portal. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 2141-2159.	3.4	9
521	Legal Issues in Cloud Computing. , 2011, , 593-613.		9
522	Data Security in the Cloud. , 2011, , 573-592.		9

#	Article	IF	Citations
523	IGSK: Index Generation on Split Keyword for search over cloud data. , 2015, , .		9
524	iGiraph: A Cost-Efficient Framework for Processing Large-Scale Graphs on Public Clouds. , 2016, , .		9
525	Web Service Interaction Modeling and Verification Using Recursive Composition Algebra. IEEE Transactions on Services Computing, 2018, , 1-1.	4.6	9
526	State and runtime-aware scheduling in elastic stream computing systems. Future Generation Computer Systems, 2019, 97, 194-209.	7.5	9
527	A Learning Technique for VM Allocation to Resolve Geospatial Queries. Advances in Intelligent Systems and Computing, 2019, , 577-584.	0.6	9
528	Integration of Cloud, Internet of Things, and Big Data Analytics. Software - Practice and Experience, 2019, 49, 561-564.	3.6	9
529	Dynamic Management of Traffic Signals through Social IoT. Procedia Computer Science, 2020, 171, 1908-1916.	2.0	9
530	BigDataSDNSim: A simulator for analyzing big data applications in softwareâ€defined cloud data centers. Software - Practice and Experience, 2021, 51, 893-920.	3.6	9
531	Fog-Integrated Cloud Architecture enabled multi-attribute combinatorial reverse auctioning framework. Simulation Modelling Practice and Theory, 2021, 109, 102307.	3.8	9
532	WattsApp: Power-Aware Container Scheduling. , 2020, , .		9
533	DATESSO. , 2020, , .		9
534	Systematic scalability analysis for microservices granularity adaptation design decisions. Software - Practice and Experience, 2022, 52, 1378-1401.	3.6	9
535	Decentralized media streaming infrastructure (DeMSI): An adaptive and high-performance peer-to-peer content delivery network. Journal of Systems Architecture, 2006, 52, 737-772.	4.3	8
536	Economy-based Content Replication for Peering Content Delivery Networks. , 2007, , .		8
537	A pareto following variation operator for fast-converging multiobjective evolutionary algorithms. , 2008, , .		8
538	Building an automated and selfâ€configurable emulation testbed for grid applications. Software - Practice and Experience, 2010, 40, 405-429.	3.6	8
539	Migrating into a Cloud. , 2011, , 43-56.		8
540	Special section on autonomic cloud computing: technologies, services, and applications. Concurrency Computation Practice and Experience, 2012, 24, 935-937.	2.2	8

#	Article	IF	Citations
541	A proximity-aware load balancing in peer-to-peer-based volunteer computing systems. Journal of Supercomputing, 2013, 65, 797-822.	3.6	8
542	Genetic Algorithm Based Data-Aware Group Scheduling for Big Data Clouds. , 2014, , .		8
543	Contention management in federated virtualized distributed systems: implementation and evaluation. Software - Practice and Experience, 2014, 44, 353-368.	3.6	8
544	A Geospatial Orchestration Framework on Cloud for Processing User Queries. , 2016, , .		8
545	Regulations and latency-aware load distribution of web applications in Multi-Clouds. Journal of Supercomputing, 2016, 72, 3261-3280.	3.6	8
546	Scientific Workflow Management System for Clouds. , 2017, , 367-387.		8
547	TSLAM. ACM Transactions on Autonomous and Adaptive Systems, 2018, 13, 1-41.	0.8	8
548	Progressive Search Algorithm for Service Discovery in an IoT Ecosystem. , 2019, , .		8
549	Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management. IEEE Systems Journal, 2020, 14, 927-938.	4.6	8
550	CRUPA: collusion resistant user revocable public auditing of shared data in cloud. Journal of Cloud Computing: Advances, Systems and Applications, 2020, 9, .	3.9	8
551	DTCMS: Dynamic traffic congestion management in Social Internet of Vehicles (SIoV). Internet of Things (Netherlands), 2021, 16, 100311.	7.7	8
552	Mobile Cloud Computing and Wireless Sensor Networks: A review, integration architecture, and future directions. IET Networks, 2021, 10, 141-161.	1.8	8
553	CONFRONT: Cloud-fog-dew based monitoring framework for COVID-19 management. Internet of Things (Netherlands), 2021, 16, 100459.	7.7	8
554	Unprecedented Smart Algorithm for Uninterrupted SDN Services During DDoS Attack. Computers, Materials and Continua, 2022, 70, 875-894.	1.9	8
555	Batch Resizing Policies and Techniques for Fine-Grain Grid Tasks: The Nuts and Bolts. Journal of Information Processing Systems, 2011, 7, 299-320.	0.9	8
556	START: Straggler Prediction and Mitigation for Cloud Computing Environments using Encoder LSTM Networks. IEEE Transactions on Services Computing, 2021, , 1-1.	4.6	8
557	Simulating Fog Computing Applications Using iFogSim Toolkit. , 2021, , 565-590.		8
558	A Market-Based Scheduler for JXTA-Based Peer-to-Peer Computing System. Lecture Notes in Computer Science, 2004, , 147-157.	1.3	7

#	Article	IF	Citations
559	On incorporating an on-line strip packing algorithm into elastic Grid reservation-based systems. , 2007, , .		7
560	The Pareto-Following Variation Operator as an alternative approximation model. , 2009, , .		7
561	Service Level Agreement(SLA) Based SaaS Cloud Management System. , 2015, , .		7
562	Formal Verification of the xDAuth Protocol. IEEE Transactions on Information Forensics and Security, 2016, , 1-1.	6.9	7
563	Task-Based Budget Distribution Strategies for Scientific Workflows with Coarse-Grained Billing Periods in IaaS Clouds. , 2017, , .		7
564	Secure policy execution using reusable garbled circuit in the cloud. Future Generation Computer Systems, 2018, 87, 488-501.	7.5	7
565	Analyzing Energy-Efficiency of Two Scheduling Policies in Compute-Intensive Applications on Cloud. IEEE Access, 2018, 6, 45515-45526.	4.2	7
566	Value-based cloud price modeling for segmented business to business market. Future Generation Computer Systems, 2019, 101, 502-523.	7.5	7
567	Performance-aware deployment of streaming applications in distributed stream computing systems. International Journal of Bio-Inspired Computation, 2020, 15, 52.	0.9	7
568	An Integration of Global and Enterprise Grid Computing: Gridbus Broker and Xgrid Perspective. Lecture Notes in Computer Science, 2005, , 406-417.	1.3	7
569	Cloud Computing Market Segmentation. , 2018, , .		7
570	Artificial Intelligence (AI)-Centric Management of Resources in Modern Distributed Computing Systems. , 2020, , .		7
571	High-availability clusters: A taxonomy, survey, and future directions. Journal of Systems and Software, 2022, 187, 111208.	4.5	7
572	Economy-Based Data Replication Broker. , 2006, , .		6
573	Managing Risk of Inaccurate Runtime Estimates for Deadline Constrained Job Admission Control in Clusters. , 0, , .		6
574	Portfolio and investment risk analysis on global grids. Journal of Computer and System Sciences, 2007, 73, 1164-1175.	1.2	6
575	A service-oriented Grid environment for integration of distributed kidney models and resources. Concurrency Computation Practice and Experience, 2008, 20, 1095-1111.	2.2	6
576	An Autonomic Workflow Management System for Global Grids. , 2008, , .		6

#	Article	IF	Citations
577	Dependable workflow scheduling in global Grids. , 2009, , .		6
578	Special section: software architectures and application development environments for Cloud computing. Software - Practice and Experience, 2012, 42, 391-394.	3.6	6
579	MapReduce-Based Algorithms for Managing Big RDF Graphs: State-of-the-Art Analysis, Paradigms, and Future Directions. , 2017, , .		6
580	A Taxonomy and Survey of Stream Processing Systems. , 2017, , 183-206.		6
581	Metaheuristics in cloud computing. Software - Practice and Experience, 2018, 48, 1729-1733.	3.6	6
582	Identifying and Estimating Technical Debt for Service Composition in SaaS Cloud. , 2019, , .		6
583	MovCloud: A Cloud-Enabled Framework to Analyse Movement Behaviors. , 2019, , .		6
584	E^2R^2N: Energyâ€efficient retailing using a femtoletâ€based fog network. Software - Practice and Experience, 2019, 49, 498-523.	3.6	6
585	Security-SLA-guaranteed service function chain deployment in cloud-fog computing networks. Cluster Computing, 2021, 24, 2479-2494.	5.0	6
586	iGateLink: A Gateway Library for Linking IoT, Edge, Fog, and Cloud Computing Environments. Smart Innovation, Systems and Technologies, 2021, , 11-19.	0.6	6
587	Dynamic redirection of real-time data streams for elastic stream computing. Future Generation Computer Systems, 2020, 112, 193-208.	7.5	6
588	Geospatial Edge-Fog Computing: A Systematic Review, Taxonomy, and Future Directions. , 2021, , 47-69.		6
589	Performance models for peering Content Delivery Networks. , 2008, , .		5
590	A utility model for peering of multi-provider content delivery services. , 2009, , .		5
591	Gene Expression Classification with a Novel Coevolutionary Based Learning Classifier System on Public Clouds. , 2010, , .		5
592	Enriching the â€˜Integration as a Serviceâ€™ Paradigm for the Cloud Era. , 2011, , 57-96.		5
593	Grid Authorization Graph. Future Generation Computer Systems, 2013, 29, 1909-1918.	7.5	5
594	Workload-Aware Incremental Repartitioning of Shared-Nothing Distributed Databases for Scalable Cloud Applications. , 2014, , .		5

#	Article	IF	Citations
595	The interplay between timeliness and scalability in cloud monitoring systems. , 2015, , .		5
596	Decentralised workflow scheduling in volunteer computing systems. International Journal of Parallel, Emergent and Distributed Systems, 2015, 30, 343-365.	1.0	5
597	Elasticity debt. , 2016, , .		5
598	<i>SipaaS</i>: Spot instance pricing as a Service framework and its implementation in OpenStack. Concurrency Computation Practice and Experience, 2016, 28, 3672-3690.	2.2	5
599	Split keyword fuzzy and synonym search over encrypted cloud data. Multimedia Tools and Applications, 2018, 77, 10135-10156.	3.9	5
600	SSSSS: Search for Social Similar Smart Objects in SIoT. , 2018, , .		5
601	Sustainable Cloud Computing Realization for Different Applications: A Manifesto. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 95-117.	0.7	5
602	Recent advances in cloud data centers toward fog data centers. Concurrency Computation Practice and Experience, 2019, 31, e5164.	2.2	5
603	An energy-aware multi-sensor geo-fog paradigm for mission critical applications. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 3155-3173.	4.9	5
604	Unequalâ€interval based loosely coupled control method for autoâ€scaling heterogeneous cloud resources for web applications. Concurrency Computation Practice and Experience, 2020, 32, e5926.	2.2	5
605	A Data-Driven Frequency Scaling Approach for Deadline-aware Energy Efficient Scheduling on Graphics Processing Units (GPUs). , 2020, , .		5
606	J-OPT: A Joint Host and Network Optimization Algorithm for Energy-Efficient Workflow Scheduling in Cloud Data Centers. , 2019, , .		5
607	Gridscape: A Tool for the Creation of Interactive and Dynamic Grid Testbed Web Portals. Lecture Notes in Computer Science, 2003, , 131-142.	1.3	5
608	A Debt-Aware Learning Approach for Resource Adaptations in Cloud Elasticity Management. Lecture Notes in Computer Science, 2017, , 367-382.	1.3	5
609	A multi-level collaborative framework for elastic stream computing systems. Future Generation Computer Systems, 2022, 128, 117-131.	7.5	5
610	Towards simulating the constraint-based nature-inspired smart scheduling in energy intelligent buildings. Simulation Modelling Practice and Theory, 2022, 118, 102550.	3.8	5
611	Impact of Adaptive Resource Allocation Requests in Utility Cluster Computing Environments. , 2007, , .		4
612	Simulation of Buffer Management Policies in Networks for Grids. Simulation Symposium, Proceedings of the Annual, 2008, , .	0.0	4

#	Article	IF	Citations
613	An Autonomic Peer-to-Peer Architecture for Hosting Stateful Web Services. , 2008, , .		4
614	A distributed heuristic for decentralized workflow scheduling in global Grids. , 2009, , .		4
615	Preemption-aware Admission Control in a Virtualized Grid Federation. , 2012, , .		4
616	Performance anomaly detection using isolation–trees in heterogeneous workloads of web applications in computing clouds. Concurrency Computation Practice and Experience, 2019, 31, e5306.	2.2	4
617	Geo-Cloudlet: Time and Power Efficient Geospatial Query Resolution using Cloudlet. , 2019, , .		4
618	SDVADC: Secure Deduplication and Virtual Auditing of Data in Cloud. Procedia Computer Science, 2020, 171, 2225-2234.	2.0	4
619	LYRIC: Deadline and Budget Aware Spatio-Temporal Query Processing in Cloud. IEEE Transactions on Services Computing, 2022, 15, 2869-2882.	4.6	4
620	Special Issue on Methods and Infrastructures for Data Mining at the Edge of Internet of Things. IEEE Internet of Things Journal, 2021, 8, 10220-10221.	8.7	4
621	OpenPATH: Application aware high-performance software-defined switching framework. Journal of Network and Computer Applications, 2021, 193, 103196.	9.1	4
622	Resource Management and Scheduling for Big Data Applications in Cloud Computing Environments. Advances in Computer and Electrical Engineering Book Series, 2019, , 1-23.	0.3	4
623	Cloud Bursting: Managing Peak Loads by Leasing Public Cloud Services. , 2017, , 343-367.		4
624	Trust Management for Service-Oriented SIoT Systems. , 2020, , .		4
625	Edge In-Network Computing Meets Blockchain: A Multi-Domain Heterogeneous Resource Trust Management Architecture. IEEE Network, 2021, 35, 50-57.	6.9	4
626	Decentralization in Distributed Systems. , 0, , 386-399.		4
627	Introduction to Mobile Edge Computing. , 2021, , 3-19.		4
628	A Cost-Aware Resource Exchange Mechanism for Load Management across Grids. , 2008, , .		3
629	Towards self-managed adaptive emulation of grid environments. , 2009, , .		3
630	Brain Image Registration Analysis Workflow for fMRI Studies on Global Grids. , 2009, , .		3

#	Article	IF	Citations
631	Virtual Machines Provisioning and Migration Services. , 2011, , 121-156.		3
632	T-Systems' Cloud-Based Solutions for Business Applications. , 2011, , 299-319.		3
633	Guest Editors' Introduction: Special Issue on Cloud Computing. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1062-1065.	5.6	3
634	QoS-based Task Group Deployment on Grid by Learning the Performance Data. Journal of Grid Computing, 2014, 12, 465-483.	3.9	3
635	XHAMI -- Extended HDFS and MapReduce Interface for Image Processing Applications. , 2015, , .		3
636	RSSMSO Rapid Similarity Search on Metric Space Object Stored in Cloud Environment. International Journal of Organizational and Collective Intelligence, 2016, 6, 33-49.	0.3	3
637	Short-Term Prediction Model to Maximize Renewable Energy Usage in Cloud Data Centers. , 2018, , 203-218.		3
638	Ontology based Service Discovery for Intelligent Transport Systems using Internet of Things. , 2018, , .		3
639	Cost€efficient and network€aware dynamic repartitioning€based algorithms for scheduling large€scale graphs in cloud computing environments. Software - Practice and Experience, 2018, 48, 2174-2192.	3.6	3
640	A Cloud Bidding Framework for Deadline Constrained Jobs. , 2019, , .		3
641	A Cost-Efficient Auto-Scaling Algorithm for Large-Scale Graph Processing in Cloud Environments with Heterogeneous Resources. IEEE Transactions on Software Engineering, 2021, 47, 1729-1741.	5.6	3
642	K€ear: Extracting data access periodic characteristics for energy€aware data clustering and storing in cloud storage systems. Concurrency Computation Practice and Experience, 2021, 33, e6096.	2.2	3
643	FollowMe@LS: Electricity price and source aware resource management in geographically distributed heterogeneous datacenters. Journal of Systems and Software, 2021, 175, 110907.	4.5	3
644	PARMON: a portable and scalable monitoring system for clusters. , 2000, 30, 723.		3
645	Internetworking of CDNs. Lecture Notes in Electrical Engineering, 2008, , 389-413.	0.4	3
646	Context-Oriented User-Centric Search System for the IoT Based on Fuzzy Clustering. Communications in Computer and Information Science, 2020, , 343-356.	0.5	3
647	SoCo-ITS. , 2019, , .		3
648	Golden Jubilee Year of the Software Journal: Celebrating its Vision, Ground€breaking Contributions and Impact. Software - Practice and Experience, 2021, 51, 3-4.	3.6	3

#	Article	IF	Citations
649	Internet of Things (IoT) and Cloud Computing Enabled Disaster Management. Scalable Computing and Communications, 2020, , 273-298.	0.5	3
650	Enabling the Simulation of Service-Oriented Computing and Provisioning Policies for Autonomic Utility Grids. Lecture Notes in Computer Science, 2007, , 136-149.	1.3	3
651	MQDS: An energy saving scheduling strategy with diverse QoS constraints towards reconfigurable cloud storage systems. Future Generation Computer Systems, 2022, 129, 252-268.	7.5	3
652	CoLocateMe: Aggregation-Based, Energy, Performance and Cost Aware VM Placement and Consolidation in Heterogeneous IaaS Clouds. IEEE Transactions on Services Computing, 2023, 16, 1023-1038.	4.6	3
653	CloudSimSFC: Simulating Service Function chains in Multi-Domain Service Networks. Simulation Modelling Practice and Theory, 2022, 120, 102597.	3.8	3
654	Enabling Computational Steering with an Asynchronous-Iterative Computation Framework. , 2009, , .		2
655	Reliability-Driven Reputation Based Scheduling for Public-Resource Computing Using GA. , 2009, , .		2
656	A Taxonomy of Autonomic Application Management in Grids. , 2010, , .		2
657	Organizational Readiness and Change Management in the Cloud Age. , 2011, , 549-572.		2
658	Design and Development of an Adaptive Workflow-Enabled Spatial-Temporal Analytics Framework. , 2012, , .		2
659	Middleware for Clouds and eâ€Science. Concurrency Computation Practice and Experience, 2012, 24, 1393-1396.	2.2	2
660	Cloud scalability: building the Millennium Falcon. Concurrency Computation Practice and Experience, 2013, 25, 1623-1627.	2.2	2
661	PriDynSim a Simulator for Dynamic Priority Based I/O Scheduling for Cloud Applications. , 2015, , .		2
662	On Application of Ontology and Consensus Theory to Human-Centric IoT: An Emergency Management Case Study. , 2015, , .		2
663	SLO-Aware Deployment of Web Applications Requiring Strong Consistency Using Multiple Clouds. , 2015, , .		2
664	A Group-based Fault Tolerant Mechanism for Heterogeneous Mobile Clouds. , 2017, , .		2
665	PAX: Partition-aware autoscaling for the Cassandra NoSQL database. , 2018, , .		2
666	Software tools and techniques for fog and edge computing. Software - Practice and Experience, 2020, 50, 473-475.	3.6	2

#	Article	IF	Citations
667	SAED: Edge-Based Intelligence for Privacy-Preserving Enterprise Search on the Cloud. , 2021, , .		2
668	Scalable Deployment of a LIGO Physics Application on Public Clouds: Workflow Engine and Resource Provisioning Techniques. , 2014, , 3-25.		2
669	Performance Analysis of Preemption-Aware Scheduling in Multi-cluster Grid Environments. Lecture Notes in Computer Science, 2011, , 419-432.	1.3	2
670	Virtual Networking with Azure for Hybrid Cloud Computing in Aneka. , 2017, , 93-114.		2
671	An API for Development of User-Defined Scheduling Algorithms in Aneka PaaS Cloud Software. Advances in Computer and Electrical Engineering Book Series, 2019, , 170-187.	0.3	2
672	A Survey of Scheduling and Management Techniques for Data-Intensive Application Workflows. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 0, , 156-176.	0.5	2
673	A DATAFLOW MODEL FOR .NET-BASED GRID COMPUTING SYSTEMS. , 2007, , .		2
674	Architectural Elements of Resource Sharing Networks. , 2012, , 153-184.		2
675	A New Multi-objective Evolutionary Algorithm for Inter-Cloud Service Composition. KSII Transactions on Internet and Information Systems, 2018, 12, .	0.3	2
676	High-Performance Mining of COVID-19 Open Research Datasets for Text Classification and Insights in Cloud Computing Environments. , 2020, , .		2
677	Dynamic Parallel Flow Algorithms With Centralized Scheduling for Load Balancing in Cloud Data Center Networks. IEEE Transactions on Cloud Computing, 2023, 11, 1050-1064.	4.4	2
678	Cloud Resource Provisioning and Bottleneck Eliminating for Meshed Web Systems. , 2020, , .		2
679	Software-Defined Multi-domain Tactical Networks: Foundations and Future Directions. , 2021, , 183-227.		2
680	A Topology-Aware Scheduling Strategy for Distributed Stream Computing System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 132-147.	0.3	2
681	EFTA: An Energy-efficient, Fault-Tolerant, and Area-optimized UAV Placement Scheme for Search Operations. , 2022, , .		2
682	An energy efficient and runtime-aware framework for distributed stream computing systems. Future Generation Computer Systems, 2022, 136, 252-269.	7.5	2
683	Image Filtering on .NET-based Desktop Grids. , 2007, , .		1
684	Gridbus Work?ow Management System on Clouds and Global Grids. , 2008, , .		1

#	Article	IF	Citations
685	Service and Utility Oriented Distributed Computing Systems: Challenges and Opportunities for Modeling and Simulation Communities. Simulation Symposium, Proceedings of the Annual, 2008, , .	0.0	1
686	Jeeva: Enterprise Grid Enabled Web Portal for Protein Secondary Structure Prediction. , 2008, , .		1
687	Gridscape II: An extensible grid monitoring portal architecture and its integration with Google Maps. International Journal of Parallel, Emergent and Distributed Systems, 2008, 23, 153-170.	1.0	1
688	The optimization of replica distribution in the unstructured overlays. Science China Information Sciences, 2012, 55, 714-722.	4.3	1
689	Taxonomy of Contention Management in Interconnected Distributed Systems. , 2014, , 1-34.		1
690	FRORSS: Fast result object retrieval using similarity search on cloud. , 2016, , .		1
691	DRSIG: Domain and Range Specific Index Generation for encrypted Cloud data. , 2016, , .		1
692	A Multi-Agent Elasticity Management Based on Multi-Tenant Debt Exchanges. , 2018, , .		1
693	Acinonyx: Dynamic Flow Scheduling for Virtual Machine Migration in SDN-Enabled Clouds. , 2018, , .		1
694	Unfolding the Mutual Relation Between Timeliness and Scalability in Cloud Monitoring. , 2018, , .		1
695	Probability Density for Amazon Spot Instance Price. , 2019, , .		1
696	EAODBT: Efficient Auditing for Outsourced Database with Token Enforced Cloud Storage. , 2019, , .		1
697	APEX: Adaptive Ext4 File System for Enhanced Data Recoverability in Edge Devices. , 2019, , .		1
698	Location-aware IoT Search Framework based on Data Messaging and Aggregation Techniques. , 2019, , .		1
699	New generation cloud computing. Software - Practice and Experience, 2020, 50, 803-804.	3.6	1
700	Visual Parameteric Modeler for Rapid Composition of Parameter-Sweep Applications for Processing on Global Grids. Lecture Notes in Computer Science, 2003, , 739-749.	1.3	1
701	Achieving Production Readiness for Cloud Services. , 0, , 615-634.		1
702	SRCBT: Secure Regeneration of Corrupted Blocks by TPA in Cloud. , 2020, , .		1

#	Article	IF	Citations
703	Energy and latency aware mobile task assignment for green cloudlets. Simulation Modelling Practice and Theory, 2022, , 102531.	3.8	1
704	Adaptive processing rate based container provisioning for meshed Micro-services in Kubernetes Clouds. CCF Transactions on High Performance Computing, 2022, 4, 165-181.	1.7	1
705	Special Issue Guest Editorial: Cluster Computing Using High-Speed Networks. Journal of Supercomputing, 2001, 19, 247-249.	3.6	0
706	Gridscape II: A Customisable and Pluggable Grid Monitoring Portal and its Integration with Google Maps. , 2006, , .		0
707	Introduction to the Special Issue on the 18th International Symposium on Computer Architecture and High Performance Computing. International Journal of Parallel Programming, 2008, 36, 163-165.	1.5	0
708	Content Delivery Networks: Overlay Networks for Scaling and Enhancing the Web. , 2008, , .		0
709	An Adaptive Mechanism for Fair Sharing of Storage Resources. , 2009, , .		0
710	Preface of special issue on the economics of computing services. Future Generation Computer Systems, 2012, 28, 1283-1284.	7.5	0
711	Preface to special issue on Advances in Cloud Computing. Journal of Supercomputing, 2012, 61, 249-250.	3.6	0
712	Guest editorial: Cloud computing. China Communications, 2014, 11, i-ii.	3.2	0
713	A status report on IEEE Transactions on Cloud Computing. IEEE Transactions on Cloud Computing, 2015, 3, 100-100.	4.4	0
714	Automatic Provisioning of Intercloud Resources driven by Nonfunctional Requirements of Applications. , 2016, , 446-461.		0
715	Special issue on cloud computing for scientific and business needs. CSI Transactions on ICT, 2017, 5, 339-339.	1.0	0
716	Dynamic Selection of Virtual Machines for Application Servers in Cloud Environments. , 2017, , 187-210.		0
717	SARRC: Secure Auditing and Re-signing of Revoked Customer Chunks by Cloud Using Regression Method. , 2018, , .		0
718	STLDAS: Secure Two Level Deduplication and Auditing of Shared Data in Cloud. , 2019, , .		0
719	Grid Computing. , 2009, , 117-145.		0
720	DATAFLOW COMPUTATIONS ON ENTERPRISE GRIDS. , 2010, , 537-563.		0

#	Article	IF	Citations
721	On the Performance of Content Delivery Clouds. , 2012, , 29-54.		0
722	Resource Co-Allocation in Grid Computing Environments. , 2012, , 100-118.		0
723	A Survey of Scheduling and Management Techniques for Data-Intensive Application Workflows. , 2013, , 1170-1190.		0
724	Performance-aware deployment of streaming applications in distributed stream computing systems. International Journal of Bio-Inspired Computation, 2020, 15, 52.	0.9	0
725	Device Discovery Techniques for Industrial Internet of Things Through Predictive Analytic Mechanism. Advances in Intelligent Systems and Computing, 2020, , 76-89.	0.6	0
726	Data Access Management System in Azure Blob Storage and AWS S3 Multi-Cloud Storage Environments. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 130-147.	0.5	0
727	Resource Co-Allocation in Grid Computing Environments. , 0, , 100-118.		0
728	Post golden jubilee year of the software journal: New research trends and strengthening advisory editorial team. Software - Practice and Experience, 2022, 52, 3-4.	3.6	0
729	State space model and queuing network based Cloud Resource Provisioning for Meshed Web Systems. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	5.6	0
730	Marketâ€inspired framework for securing assets in cloud computing environments. Software - Practice and Experience, 0, , .	3.6	0
731	Systematic Scalability Modeling of QoS-aware Dynamic Service Composition. ACM Transactions on Autonomous and Adaptive Systems, 2021, 16, 1-39.	0.8	0