

# Saurabh Garg

## List of Publications by Year in descending order

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107  
papers

4,959  
citations

212478

28  
h-index

139680

61  
g-index

112  
all docs

112  
docs citations

112  
times ranked

4644  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scheduling Algorithms for Efficient Execution of Stream Workflow Applications in Multicloud Environments. IEEE Transactions on Services Computing, 2022, 15, 860-875.	3.2	7
2	AutoDiagn: An Automated Real-Time Diagnosis Framework for Big Data Systems. IEEE Transactions on Computers, 2022, 71, 1035-1048.	2.4	7
3	Towards Interconnected Blockchains. ACM Computing Surveys, 2022, 54, 1-39.	16.1	25
4	A context-aware information-based clone node attack detection scheme in Internet of Things. Journal of Network and Computer Applications, 2022, 197, 103271.	5.8	9
5	A probability-based risk metric for operational wildfire risk management. Environmental Modelling and Software, 2022, 148, 105286.	1.9	4
6	Towards a formal modelling, analysis and verification of a clone node attack detection scheme in the internet of things. Computer Networks, 2022, 204, 108702.	3.2	5
7	A taxonomy study on securing Blockchain-based Industrial applications: An overview, application perspectives, requirements, attacks, countermeasures, and open issues. Journal of Industrial Information Integration, 2022, 26, 100312.	4.3	20
8	Resource scheduling and provisioning for processing of dynamic stream workflows under latency constraints. Future Generation Computer Systems, 2022, 131, 166-182.	4.9	0
9	Applications of artificial intelligence to aid early detection of dementia: A scoping review on current capabilities and future directions. Journal of Biomedical Informatics, 2022, 127, 104030.	2.5	33
10	Smart-contract enabled decentralized knowledge fusion for blockchain-based conversation system. Expert Systems With Applications, 2022, 203, 117089.	4.4	4
11	A blockchain-based framework for automatic SLA management in fog computing environments. Journal of Supercomputing, 2022, 78, 16647-16677.	2.4	4
12	The TAS Test project: a prospective longitudinal validation of new online motor-cognitive tests to detect preclinical Alzheimer's disease and estimate 5-year risks of cognitive decline and dementia. BMC Neurology, 2022, 22, .	0.8	8
13	Detection of SLA Violation for Big Data Analytics Applications in Cloud. IEEE Transactions on Computers, 2021, 70, 746-758.	2.4	6
14	A study on the evaluation of HPC microservices in containerized environment. Concurrency Computation Practice and Experience, 2021, 33, 1-1.	1.4	12
15	BigDataSDNSim: A simulator for analyzing big data applications in software-defined cloud data centers. Software - Practice and Experience, 2021, 51, 893-920.	2.5	9
16	SMOaaS: a Scalable Matrix Operation as a Service model in Cloud. Journal of Supercomputing, 2021, 77, 3381-3401.	2.4	0
17	Multi-criteria-based Dynamic User Behaviour-aware Resource Allocation in Fog Computing. ACM Transactions on Internet of Things, 2021, 2, 1-31.	3.4	16
18	A Generic Stochastic Model for Resource Availability in Fog Computing Environments. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 960-974.	4.0	13

#	ARTICLE	IF	CITATIONS
19	A Surrogate Model for Rapidly Assessing the Size of a Wildfire over Time. <i>Fire</i> , 2021, 4, 20.	1.2	7
20	Towards Secure Fog Computing: A Survey on Trust Management, Privacy, Authentication, Threats and Access Control. <i>Electronics (Switzerland)</i> , 2021, 10, 1171.	1.8	30
21	A decision model for blockchain applicability into knowledge-based conversation system. <i>Knowledge-Based Systems</i> , 2021, 220, 106791.	4.0	21
22	Performance evaluation of Hyperledger Fabric-enabled framework for pervasive peer-to-peer energy trading in smart Cyber-Physical Systems. <i>Future Generation Computer Systems</i> , 2021, 118, 392-416.	4.9	22
23	A formally verified blockchain-based decentralised authentication scheme for the internet of things. <i>Journal of Supercomputing</i> , 2021, 77, 14461-14501.	2.4	13
24	Hand tremor detection in videos with cluttered background using neural network based approaches. <i>Health Information Science and Systems</i> , 2021, 9, 30.	3.4	13
25	Running Industrial Workflow Applications in a Software-Defined Multicloud Environment Using Green Energy Aware Scheduling Algorithm. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 5645-5656.	7.2	24
26	Online Scheduling Technique To Handle Data Velocity Changes in Stream Workflows. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2021, 32, 2115-2130.	4.0	5
27	Global sensitivity analysis for uncertainty quantification in fire spread models. <i>Environmental Modelling and Software</i> , 2021, 143, 105110.	1.9	8
28	SLA Management for Big Data Analytical Applications in Clouds. <i>ACM Computing Surveys</i> , 2021, 53, 1-40.	16.1	18
29	Automatic construction of accurate bioacoustics workflows under time constraints using a surrogate model. <i>Applied Soft Computing Journal</i> , 2021, 113, 107944.	4.1	1
30	Mobility-Based Resource Allocation and Provisioning in Fog and Edge Computing Paradigms: Review, Challenges, and Future Directions. , 2021, , 251-279.		3
31	SDP: Scalable Real-time Dynamic Graph Partitioner. <i>IEEE Transactions on Services Computing</i> , 2021, , 1-1.	3.2	1
32	Orchestrating Big Data Analysis Workflows in the Cloud. <i>ACM Computing Surveys</i> , 2020, 52, 1-41.	16.1	35
33	Deadline-based dynamic resource allocation and provisioning algorithms in Fog-Cloud environment. <i>Future Generation Computer Systems</i> , 2020, 104, 131-141.	4.9	118
34	IoTSim-Edge: A simulation framework for modeling the behavior of Internet of Things and edge computing environments. <i>Software - Practice and Experience</i> , 2020, 50, 844-867.	2.5	69
35	An Efficient Resource Monitoring Service for Fog Computing Environments. <i>IEEE Transactions on Services Computing</i> , 2020, 13, 709-722.	3.2	29
36	FogAuthChain: A secure location-based authentication scheme in fog computing environments using Blockchain. <i>Computer Communications</i> , 2020, 162, 212-224.	3.1	44

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37	An efficient framework for ensemble of natural disaster simulations as a service. <i>Geoscience Frontiers</i> , 2020, 11, 1859-1873.	4.3	8
38	Repetitive transcranial magnetic stimulation improves Parkinson's freezing of gait via normalizing brain connectivity. <i>Npj Parkinson's Disease</i> , 2020, 6, 16.	2.5	31
39	A cloud-based framework for sensitivity analysis of natural hazard models. <i>Environmental Modelling and Software</i> , 2020, 134, 104800.	1.9	13
40	Cost effective stream workflow scheduling to handle application structural changes. <i>Future Generation Computer Systems</i> , 2020, 112, 348-361.	4.9	8
41	IoTsim-SDWAN: A simulation framework for interconnecting distributed datacenters over Software-Defined Wide Area Network (SD-WAN). <i>Journal of Parallel and Distributed Computing</i> , 2020, 143, 17-35.	2.7	13
42	AcoustiCloud: A cloud-based system for managing large-scale bioacoustics processing. <i>Environmental Modelling and Software</i> , 2020, 131, 104778.	1.9	5
43	Bioacoustics Data Analysis – A Taxonomy, Survey and Open Challenges. <i>IEEE Access</i> , 2020, 8, 57684-57708.	2.6	20
44	An automated model to score the privacy of unstructured information – Social media case. <i>Computers and Security</i> , 2020, 92, 101778.	4.0	11
45	A Micro-Level Compensation-Based Cost Model for Resource Allocation in a Fog Environment. <i>Sensors</i> , 2019, 19, 2954.	2.1	24
46	High-frequency rTMS over the supplementary motor area improves freezing of gait in Parkinson's disease: a randomized controlled trial. <i>Parkinsonism and Related Disorders</i> , 2019, 68, 85-90.	1.1	39
47	Cloud Computing in natural hazard modeling systems: Current research trends and future directions. <i>International Journal of Disaster Risk Reduction</i> , 2019, 38, 101188.	1.8	37
48	Automatic rain and cicada chorus filtering of bird acoustic data. <i>Applied Soft Computing Journal</i> , 2019, 81, 105501.	4.1	24
49	A Survey on Blockchain-Based Internet Service Architecture: Requirements, Challenges, Trends, and Future. <i>IEEE Access</i> , 2019, 7, 75845-75872.	2.6	85
50	Sustainability Analysis for Fog Nodes With Renewable Energy Supplies. <i>IEEE Internet of Things Journal</i> , 2019, 6, 6725-6735.	5.5	5
51	IoTsim-Stream: Modelling stream graph application in cloud simulation. <i>Future Generation Computer Systems</i> , 2019, 99, 86-105.	4.9	14
52	Window-based Streaming Graph Partitioning Algorithm. , 2019, , .		13
53	Identifying Patterns of Human and Bird Activities Using Bioacoustic Data. <i>Forests</i> , 2019, 10, 917.	0.9	0
54	Co-authorship trends in English literary studies, 1995–2015. <i>Studies in Higher Education</i> , 2019, 44, 786-798.	2.9	5

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55	Renewable Energy-Based Multi-Indexed Job Classification and Container Management Scheme for Sustainability of Cloud Data Centers. IEEE Transactions on Industrial Informatics, 2019, 15, 2947-2957.	7.2	85
56	Privacy-aware smart city: A case study in collaborative filtering recommender systems. Journal of Parallel and Distributed Computing, 2019, 127, 145-159.	2.7	32
57	User's privacy in recommendation systems applying online social network data: a survey and taxonomy. , 2019, , 259-282.		7
58	Orchestration Tools for Big Data. , 2019, , 1231-1239.		0
59	Automatic and Efficient Denoising of Bioacoustics Recordings Using MMSE STSA. IEEE Access, 2018, 6, 5010-5022.	2.6	19
60	Cloud computing based bushfire prediction for cyber-physical emergency applications. Future Generation Computer Systems, 2018, 79, 354-363.	4.9	15
61	Cost efficient scheduling of MapReduce applications on public clouds. Journal of Computational Science, 2018, 26, 375-388.	1.5	16
62	A Privacy-Enhanced Friending Approach for Users on Multiple Online Social Networks. Computers, 2018, 7, 42.	2.1	7
63	Investigation of Unsupervised Models for Biodiversity Assessment. Lecture Notes in Computer Science, 2018, , 160-171.	1.0	2
64	Scalable preprocessing of high volume environmental acoustic data for bioacoustic monitoring. PLoS ONE, 2018, 13, e0201542.	1.1	4
65	A Holistic Evaluation of Docker Containers for Interfering Microservices. , 2018, , .		25
66	Blockchain: Trends and Future. Lecture Notes in Computer Science, 2018, , 201-210.	1.0	25
67	SparkCloud: A Cloud-Based Elastic Bushfire Simulation Service. Remote Sensing, 2018, 10, 74.	1.8	5
68	Fog Computing: Survey of Trends, Architectures, Requirements, and Research Directions. IEEE Access, 2018, 6, 47980-48009.	2.6	366
69	The Next Grand Challenges: Integrating the Internet of Things and Data Science. IEEE Cloud Computing, 2018, 5, 12-26.	5.3	74
70	IOTSim: A simulator for analysing IoT applications. Journal of Systems Architecture, 2017, 72, 93-107.	2.5	159
71	Programming SDN-Native Big Data Applications: Research Gap Analysis. IEEE Cloud Computing, 2017, 4, 62-71.	5.3	8
72	Scoring Users' Privacy Disclosure Across Multiple Online Social Networks. IEEE Access, 2017, 5, 13118-13130.	2.6	68

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73	Orchestrating BigData Analysis Workflows. IEEE Cloud Computing, 2017, 4, 20-28.	5.3	34
74	B2P2: A Scalable Big Bioacoustic Processing Platform. , 2016, , .		3
75	SLA-Aware Scheduling of Map-Reduce Applications on Public Clouds. , 2016, , .		5
76	Exploring the Use of Big Data Analytics for Improving Support to Students in Higher Education. Lecture Notes in Computer Science, 2016, , 702-707.	1.0	1
77	Service Level Agreement(SLA) Based SaaS Cloud Management System. , 2015, , .		7
78	Clouds selection for network appliances based on trust credibility. , 2015, , .		1
79	CloudPick: a framework for QoS-aware and ontology-based service deployment across clouds. Software - Practice and Experience, 2015, 45, 197-231.	2.5	29
80	Cross-Layer SLA Management for Cloud-hosted Big Data Analytics Applications. , 2015, , .		4
81	Performance Analysis of Scheduling Algorithms for Dynamic Workflow Applications. , 2015, , .		6
82	WGS Analysis and Interpretation in Clinical and Public Health Microbiology Laboratories: What Are the Requirements and How Do Existing Tools Compare?. Pathogens, 2014, 3, 437-458.	1.2	50
83	SLA-Based Resource Provisioning for Hosted Software-as-a-Service Applications in Cloud Computing Environments. IEEE Transactions on Services Computing, 2014, 7, 465-485.	3.2	100
84	SLA-based virtual machine management for heterogeneous workloads in a cloud datacenter. Journal of Network and Computer Applications, 2014, 45, 108-120.	5.8	187
85	Particle swarm optimization of a neural network model in a machining process. Sadhana - Academy Proceedings in Engineering Sciences, 2014, 39, 533-548.	0.8	23
86	Robust Scheduling of Scientific Workflows with Deadline and Budget Constraints in Clouds. , 2014, , .		99
87	Energy and Carbon-Efficient Placement of Virtual Machines in Distributed Cloud DataCenters. Lecture Notes in Computer Science, 2013, , 317-328.	1.0	78
88	Mandi: a market exchange for trading utility and cloud computing services. Journal of Supercomputing, 2013, 64, 1153-1174.	2.4	56
89	Automated SLA Negotiation Framework for Cloud Computing. , 2013, , .		20
90	A framework for ranking of cloud computing services. Future Generation Computer Systems, 2013, 29, 1012-1023.	4.9	699

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91	Double auction-inspired meta-scheduling of parallel applications on global grids. Journal of Parallel and Distributed Computing, 2013, 73, 450-464.	2.7	27
92	An environment for modeling and simulation of message-passing parallel applications for cloud computing. Software - Practice and Experience, 2013, 43, 1359-1375.	2.5	10
93	Revenue Maximization Using Adaptive Resource Provisioning in Cloud Computing Environments. , 2012, , .		44
94	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.	0.9	180
95	NetworkCloudSim: Modelling Parallel Applications in Cloud Simulations. , 2011, , .		157
96	SMICloud: A Framework for Comparing and Ranking Cloud Services. , 2011, , .		226
97	SLA-Based Resource Provisioning for Heterogeneous Workloads in a Virtualized Cloud Datacenter. Lecture Notes in Computer Science, 2011, , 371-384.	1.0	72
98	SLA-Based Resource Allocation for Software as a Service Provider (SaaS) in Cloud Computing Environments. , 2011, , .		235
99	SLA-oriented resource provisioning for cloud computing: Challenges, architecture, and solutions. , 2011, , .		138
100	QoS-aware Deployment of Network of Virtual Appliances Across Multiple Clouds. , 2011, , .		20
101	Environment-conscious scheduling of HPC applications on distributed Cloud-oriented data centers. Journal of Parallel and Distributed Computing, 2011, 71, 732-749.	2.7	258
102	A linear programming-driven genetic algorithm for meta-scheduling on utility grids. International Journal of Parallel, Emergent and Distributed Systems, 2011, 26, 493-517.	0.7	40
103	Green Cloud Framework for Improving Carbon Efficiency of Clouds. Lecture Notes in Computer Science, 2011, , 491-502.	1.0	56
104	Provisioning Spot Market Cloud Resources to Create Cost-Effective Virtual Clusters. Lecture Notes in Computer Science, 2011, , 395-408.	1.0	19
105	Time and cost trade-off management for scheduling parallel applications on Utility Grids. Future Generation Computer Systems, 2010, 26, 1344-1355.	4.9	113
106	A Linear Programming Driven Genetic Algorithm for Meta-Scheduling on Utility Grids. , 2008, , .		14
107	A Meta-scheduler with Auction Based Resource Allocation for Global Grids. , 2008, , .		17