

# Javid Taheri

## List of Publications by Year in descending order

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115  
papers

2,403  
citations

304743

22  
h-index

254184

43  
g-index

118  
all docs

118  
docs citations

118  
times ranked

2522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy efficient resource controller for Apache Storm. Concurrency Computation Practice and Experience, 2023, 35, .	2.2	1
2	MultiScaler: A Multi-Loop Auto-Scaling Approach for Cloud-Based Applications. IEEE Transactions on Cloud Computing, 2022, 10, 2769-2786.	4.4	12
3	Energy-efficient workflow scheduling with budget-deadline constraints for cloud. Computing (Vienna/New York), 2022, 104, 601-625.	4.8	6
4	Low Latency Execution Guarantee Under Uncertainty in Serverless Platforms. Lecture Notes in Computer Science, 2022, , 324-335.	1.3	0
5	QoS-aware online scheduling of multiple workflows under task execution time uncertainty in clouds. Cluster Computing, 2022, 25, 3767-3784.	5.0	5
6	IEEE Transactions on Sustainable Computing Special Issue on Sustainability of Fog/Edge Computing Systems. IEEE Transactions on Sustainable Computing, 2022, 7, 248-249.	3.1	0
7	Dynamic Resource Provisioning for Sustainable Cloud Computing Systems in the Presence of Correlated Failures. IEEE Transactions on Sustainable Computing, 2021, 6, 641-654.	3.1	8
8	Deployment of real-time systems in the cloud environment. Journal of Supercomputing, 2021, 77, 2069-2090.	3.6	6
9	Optimal Application Deployment in Resource Constrained Distributed Edges. IEEE Transactions on Mobile Computing, 2021, 20, 1907-1923.	5.8	98
10	Graceful Performance Degradation in Apache Storm. Lecture Notes in Computer Science, 2021, , 389-400.	1.3	1
11	AutoScaleSim: A simulation toolkit for auto-scaling Web applications in clouds. Simulation Modelling Practice and Theory, 2021, 108, 102245.	3.8	16
12	Design and Optimization of Traffic-Aware TSCH Scheduling for Mobile 6TiSCH Networks. , 2021, , .		8
13	Adaptive and Latency-aware Load Balancing for Control Plane Traffic in the 4G/5G Core. , 2021, , .		3
14	Workflow scheduling of scientific workflows under simultaneous deadline and budget constraints. Cluster Computing, 2021, 24, 3449-3467.	5.0	8
15	Optimal Placement of Recurrent Service Chains on Distributed Edge-Cloud Infrastructures. , 2021, , .		4
16	Throughput Maximization in Low-Power IoT Networks via Tuning the Size of the TSCH Slotframe. , 2021, , .		2
17	PerfSim: A Performance Simulator for Cloud Native Microservice Chains. IEEE Transactions on Cloud Computing, 2021, , 1-1.	4.4	1
18	Overcoming security limitations of Secret Share techniques: the Nested Secret Share. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
19	QSpark: Distributed Execution of Batch & Streaming Analytics in Spark Platform. , 2021, , .		1
20	Data-Intensive Workload Consolidation in Serverless (Lambda/FaaS) Platforms. , 2021, , .		5
21	Dynamical Service Deployment and Replacement in Resource-Constrained Edges. Mobile Networks and Applications, 2020, 25, 674-689.	3.3	21
22	Service Function Chain Placement for Joint Cost and Latency Optimization. Mobile Networks and Applications, 2020, 25, 2191-2205.	3.3	27
23	Q-Flink: A QoS-Aware Controller for Apache Flink. , 2020, , .		9
24	On the Use of a Virtualized 5G Core for Time Critical Communication in Smart Grid. , 2020, , .		5
25	A Performance Modelling Approach for SLA-Aware Resource Recommendation in Cloud Native Network Functions. , 2020, , .		7
26	bwSlicer: A bandwidth slicing framework for cloud data centers. Future Generation Computer Systems, 2020, 112, 767-784.	7.5	8
27	Dynamical Resource Allocation in Edge for Trustable Internet-of-Things Systems: A Reinforcement Learning Method. IEEE Transactions on Industrial Informatics, 2020, 16, 6103-6113.	11.3	116
28	A Deployable Containerized 5G Core Solution for Time Critical Communication in Smart Grid. , 2020, , .		11
29	Validating the Sharing Behavior and Latency Characteristics of the L4S Architecture. Computer Communication Review, 2020, 50, 37-44.	1.8	5
30	Spark-Tuner: An Elastic Auto-Tuner for Apache Spark Streaming. , 2020, , .		0
31	IntOpt: In-Band Network Telemetry Optimization for NFV Service Chain Monitoring. , 2019, , .		19
32	Optimized Service Chain Placement Using Genetic Algorithm. , 2019, , .		14
33	Privacy-Aware Job Submission in the Cloud. , 2019, , .		1
34	Mitigating Rogue Node Attacks in Edge Computing. , 2019, , .		0
35	On the Cost-Optimality Trade-off for Service Function Chain Reconfiguration. , 2019, , .		11
36	Dynamic Control of CPU Cap Allocations in Stream Processing and Data-Flow Platforms. , 2019, , .		0

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37	On the Applicability of Secret Share Algorithms for Saving Data on IoT, Edge and Cloud Devices. , 2019, , .		9
38	MARA: Mobility-Aware Rate Adaptation for Low Power IoT Networks Using Game Theory. , 2019, , .		1
39	GA-ETI: An enhanced genetic algorithm for the scheduling of scientific workflows in cloud environments. Journal of Computational Science, 2018, 26, 318-331.	2.9	71
40	On Load Balancing for a Virtual and Distributed MME in the 5G Core. , 2018, , .		7
41	NFV-Inspector: A Systematic Approach to Profile and Analyze Virtual Network Functions. , 2018, , .		3
42	Automated Analysis and Profiling of Virtual Network Functions: the NFV-Inspector Approach. , 2018, , .		9
43	MDTCP: Towards a Practical Multipath Transport Protocol for Telco Cloud Datacenters. , 2018, , .		5
44	On the Energy Cost of Robustness and Resiliency for Virtual Network Function Placement. , 2018, , .		5
45	Composition-Driven IoT Service Provisioning in Distributed Edges. IEEE Access, 2018, 6, 54258-54269.	4.2	72
46	A Note on the Convergence of IoT, Edge, and Cloud Computing in Smart Cities. IEEE Cloud Computing, 2018, 5, 22-24.	3.9	17
47	A balanced scheduler with data reuse and replication for scientific workflows in cloud computing systems. Future Generation Computer Systems, 2017, 74, 168-178.	7.5	67
48	Mobility-Aware Service Composition in Mobile Communities. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 555-568.	9.3	107
49	HPC-Based Intelligent Volt/VAr Control of Unbalanced Distribution Smart Grid in the Presence of Noise. IEEE Transactions on Smart Grid, 2017, 8, 1446-1459.	9.0	19
50	PSO-DS: a scheduling engine for scientific workflow managers. Journal of Supercomputing, 2017, 73, 3924-3947.	3.6	16
51	SDN/NFV-Based Mobile Packet Core Network Architectures: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 1567-1602.	39.4	250
52	vmBBProfiler: a black-box profiling approach to quantify sensitivity of virtual machines to shared cloud resources. Computing (Vienna/New York), 2017, 99, 1149-1177.	4.8	8
53	Privacy-Aware Scheduling SaaS in High Performance Computing Environments. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 1176-1188.	5.6	27
54	A Dynamic Resource Controller for a Lambda Architecture. , 2017, , .		11

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55	A model for QoS-aware VNF placement and provisioning. , 2017, , .		40
56	Real-Time Virtual Network Function (VNF) Migration toward Low Network Latency in Cloud Environments. , 2017, , .		28
57	Virtual Network Function Placement: Towards Minimizing Network Latency and Lead Time. , 2017, , .		12
58	Analysis of Network Latency in Virtualized Environments. , 2016, , .		18
59	Optimizing Virtual Machine Consolidation in Virtualized Datacenters Using Resource Sensitivity. , 2016, , .		14
60	vmBBThrPred: A Black-Box Throughput Predictor for Virtual Machines in Cloud Environments. Lecture Notes in Computer Science, 2016, , 18-33.	1.3	11
61	Toward Mobile Service Computing: Opportunities and Challenges. IEEE Cloud Computing, 2016, 3, 32-41.	3.9	43
62	Genetic algorithm in finding Pareto frontier of optimizing data transfer versus job execution in grids. Concurrency Computation Practice and Experience, 2016, 28, 1715-1736.	2.2	4
63	Cost Performance Driven Service Mashup: A Developer Perspective. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2234-2247.	5.6	27
64	Computation Offloading for Service Workflow in Mobile Cloud Computing. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 3317-3329.	5.6	228
65	Evolutionary algorithm-based multi-objective task scheduling optimization model in cloud environments. World Wide Web, 2015, 18, 1737-1757.	4.0	80
66	Online Multiple Workflow Scheduling under Privacy and Deadline in Hybrid Cloud Environment. , 2014, , .		14
67	Characterization of essential proteins based on network topology in proteins interaction networks. , 2014, , .		2
68	Ubiquitous Data-Centric Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 459768.	2.2	0
69	Fuzzy modeling to predict performance of collocated virtual machines in private clouds. , 2014, , .		2
70	A hierarchical approach for energy-efficient scheduling of large workloads in multicore distributed systems. Sustainable Computing: Informatics and Systems, 2014, 4, 252-261.	2.2	23
71	Pareto frontier for job execution and data transfer time in hybrid clouds. Future Generation Computer Systems, 2014, 37, 321-334.	7.5	31
72	Hopfield neural network for simultaneous job scheduling and data replication in grids. Future Generation Computer Systems, 2013, 29, 1885-1900.	7.5	14

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73	A Bee Colony based optimization approach for simultaneous job scheduling and data replication in grid environments. <i>Computers and Operations Research</i> , 2013, 40, 1564-1578.	4.0	60
74	B-Alarm: An Entropy Based Burst Traffic Prediction Approach for Ethernet Switches in Data Centers. , 2013, , .		0
75	MPHC: Preserving Privacy for Workflow Execution in Hybrid Clouds. , 2013, , .		15
76	A study on using uncertain time series matching algorithms for MapReduce applications. <i>Concurrency Computation Practice and Experience</i> , 2013, 25, 1699-1718.	2.2	16
77	DLS: A dynamic local stitching mechanism to rectify transmitting path fragments in wireless sensor networks. <i>Journal of Network and Computer Applications</i> , 2013, 36, 306-315.	9.1	17
78	Network Load Analysis and Provisioning of MapReduce Applications. , 2012, , .		3
79	Using genetic algorithm in reconstructing single individual haplotype with minimum error correction. <i>Journal of Biomedical Informatics</i> , 2012, 45, 922-930.	4.3	11
80	Using Simulated Annealing to Find Lower Bounds of Localization with Noisy Measurements. , 2012, , .		1
81	The implementation of novel idea of translation matrix to maintain QoS for a roaming user between heterogeneous 4G wireless networks. , 2012, , .		0
82	A distributed energy saving approach for Ethernet switches in data centers. , 2012, , .		14
83	Data-Intensive Workload Consolidation for the Hadoop Distributed File System. , 2012, , .		14
84	A Pareto Frontier for Optimizing Data Transfer and Job Execution in Grids. , 2012, , .		2
85	On Modelling and Prediction of Total CPU Usage for Applications in MapReduce Environments. <i>Lecture Notes in Computer Science</i> , 2012, , 414-427.	1.3	14
86	A PARALLEL METAHEURISTIC FRAMEWORK BASED ON HARMONY SEARCH FOR SCHEDULING IN DISTRIBUTED COMPUTING SYSTEMS. <i>International Journal of Foundations of Computer Science</i> , 2012, 23, 445-464.	1.1	5
87	Machine Learning Applications in Computer Vision. , 2012, , 99-132.		1
88	On Using Pattern Matching Algorithms in MapReduce Applications. , 2011, , .		14
89	Some observations on optimal frequency selection in DVFS-based energy consumption minimization. <i>Journal of Parallel and Distributed Computing</i> , 2011, 71, 1154-1164.	4.1	111
90	Fuzzy online location management in mobile computing environments. <i>Journal of Parallel and Distributed Computing</i> , 2011, 71, 1142-1153.	4.1	5

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91	VLOCI2., 2011,, .		5
92	Finding lower bounds of localization with noisy measurements using genetic algorithms. , 2011,, .		1
93	LICA. , 2011,, .		9
94	ON THE PERFORMANCE OF STATIC AND DYNAMIC LOCATION MANAGEMENT STRATEGIES IN MOBILE COMPUTING. International Journal of Foundations of Computer Science, 2011, 22, 519-546.	1.1	3
95	RBT-L: A location based approach for solving the Multiple Sequence Alignment problem. International Journal of Bioinformatics Research and Applications, 2010, 6, 37.	0.2	10
96	RBT-Km: K-Means clustering for Multiple Sequence Alignment. , 2010, , .		1
97	Linear Combinations of DVFS-Enabled Processor Frequencies to Modify the Energy-Aware Scheduling Algorithms. , 2010, , .		58
98	On the Effect of Using Third-Party Clouds for Maximizing Profit. Lecture Notes in Computer Science, 2010, , 381-390.	1.3	4
99	A framework for real time communication in sensor networks. , 2010, , .		7
100	SSPT: Secondary Structure Prediction Triangle. , 2009, , .		0
101	BIO-INSPIRED ALGORITHMS FOR MOBILITY MANAGEMENT. Journal of Interconnection Networks, 2009, 10, 497-516.	1.0	2
102	RBT-GA: a novel metaheuristic for solving the multiple sequence alignment problem. BMC Genomics, 2009, 10, S10.	2.8	48
103	A Data Caching Approach for Sensor Applications. , 2009, , .		7
104	A simulation tool for mobility management experiments. International Journal of Pervasive Computing and Communications, 2009, 5, 360-379.	1.3	11
105	A modified hopfield network for mobility management. Wireless Communications and Mobile Computing, 2008, 8, 355-367.	1.2	19
106	On the provisioning of guaranteed QoS in wireless sensor networks through limited service polling models. , 2008, , .		4
107	RBT-I: A novel approach for solving the Multiple Sequence Alignment problem. , 2008, , .		5
108	Providing QoS guarantees to multiple classes of traffic in wireless sensor networks. , 2008, , .		8

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109	DomNet: Protein Domain Boundary Prediction Using Enhanced General Regression Network and New Profiles. IEEE Transactions on Nanobioscience, 2008, 7, 172-181.	3.3	29
110	Effects of dimensionality reduction techniques on time series similarity measurements. , 2008, , .		1
111	A Simulated Annealing approach for mobile location management. Computer Communications, 2007, 30, 714-730.	5.1	38
112	Clustering techniques for dynamic location management in mobile computing. Journal of Parallel and Distributed Computing, 2007, 67, 430-447.	4.1	13
113	A Combined Genetic-neural Algorithm for Mobility Management. Mathematical Modelling and Algorithms, 2007, 6, 481-507.	0.5	30
114	A Multi-Objective Load Balancing System for Cloud Environments. Computer Journal, 0, , .	2.4	7
115	Enhancing disk input output performance in consolidated virtualized cloud platforms using a randomized approximation scheme. Concurrency Computation Practice and Experience, 0, , e6247.	2.2	0