

Asad Waqar Malik

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

1,350
citations

394421

19
h-index

434195

31
g-index

94
all docs

94
docs citations

94
times ranked

1329
citing authors

#	ARTICLE	IF	CITATIONS
1	FogNetSim++: A Toolkit for Modeling and Simulation of Distributed Fog Environment. IEEE Access, 2018, 6, 63570-63583.	4.2	125
2	Time Barrier-Based Emergency Message Dissemination in Vehicular Ad-hoc Networks. IEEE Access, 2019, 7, 16494-16503.	4.2	64
3	IoT Operating System Based Fuzzy Inference System for Home Energy Management System in Smart Buildings. Sensors, 2018, 18, 2802.	3.8	61
4	Emergency Message Dissemination in Vehicular Networks: A Review. IEEE Access, 2020, 8, 38606-38621.	4.2	58
5	Scheduling Appliances with GA, TLBO, FA, OSR and Their Hybrids Using Chance Constrained Optimization for Smart Homes. Energies, 2018, 11, 888.	3.1	41
6	A Comprehensive Study on IoT Based Accident Detection Systems for Smart Vehicles. IEEE Access, 2020, 8, 122480-122497.	4.2	41
7	Blockchain-Based Reputation Management for Task Offloading in Micro-Level Vehicular Fog Network. IEEE Access, 2020, 8, 52968-52980.	4.2	39
8	Detection and Mitigation of Congestion in SDN Enabled Data Center Networks: A Survey. IEEE Access, 2018, 6, 1730-1740.	4.2	38
9	A machine learning framework for investigating data breaches based on semantic analysis of adversary's attack patterns in threat intelligence repositories. Future Generation Computer Systems, 2019, 95, 467-487.	7.5	38
10	Position-based emergency message dissemination for Internet of vehicles. International Journal of Distributed Sensor Networks, 2019, 15, 155014771986158.	2.2	37
11	Services and simulation frameworks for vehicular cloud computing: a contemporary survey. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	37
12	vFog: A Vehicle-Assisted Computing Framework for Delay-Sensitive Applications in Smart Cities. IEEE Access, 2019, 7, 34900-34909.	4.2	35
13	Leveraging Fog Computing for Sustainable Smart Farming Using Distributed Simulation. IEEE Internet of Things Journal, 2020, 7, 3300-3309.	8.7	33
14	A novel approach for heart disease prediction using strength scores with significant predictors. BMC Medical Informatics and Decision Making, 2021, 21, 194.	3.0	33
15	Detection and prevention of Black Hole Attacks in IOT & WSN. , 2018, , .		31
16	Optimistic Synchronization of Parallel Simulations in Cloud Computing Environments. , 2009, , .		28
17	Real-Time Adaptive Object Detection and Tracking for Autonomous Vehicles. IEEE Transactions on Intelligent Vehicles, 2021, 6, 450-459.	12.7	26
18	Can a DDoS Attack Meltdown My Data Center? A Simulation Study and Defense Strategies. IEEE Communications Letters, 2014, 18, 1175-1178.	4.1	23

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19	Congestion Avoidance in Vehicular Networks: A Contemporary Survey. IEEE Access, 2019, 7, 173196-173215.	4.2	22
20	CloudNetSim++: A toolkit for data center simulations in OMNET++. , 2014, , .		21
21	Big Data in Motion: A Vehicle-Assisted Urban Computing Framework for Smart Cities. IEEE Access, 2019, 7, 55951-55965.	4.2	21
22	Context-aware opportunistic computing in vehicle-to-vehicle networks. Vehicular Communications, 2020, 24, 100236.	4.0	21
23	An Integrated Modeling, Simulation and Analysis Framework for Engineering Complex Systems. IEEE Access, 2019, 7, 67497-67514.	4.2	20
24	On-demand resource provisioning for vehicular networks using flying fog. Vehicular Communications, 2020, 25, 100252.	4.0	18
25	Symbiotic Robotics Network for Efficient Task Offloading in Smart Industry. IEEE Transactions on Industrial Informatics, 2021, 17, 4594-4601.	11.3	18
26	Decision support system for optimum decision making process in threat evaluation and weapon assignment: Current status, challenges and future directions. Annual Reviews in Control, 2017, 43, 169-187.	7.9	17
27	Toward Sustainable Micro-Level Fog-Federated Load Sharing in Internet of Vehicles. IEEE Internet of Things Journal, 2020, 7, 3614-3622.	8.7	17
28	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
29	Blockchain-Enabled Adaptive-Learning-Based Resource-Sharing Framework for IIoT Environment. IEEE Internet of Things Journal, 2021, 8, 14746-14755.	8.7	16
30	Multi-Level Resource Sharing Framework Using Collaborative Fog Environment for Smart Cities. IEEE Access, 2021, 9, 21859-21869.	4.2	16
31	Pattern Matching for DNA Sequencing Data Using Multiple Bloom Filters. BioMed Research International, 2019, 2019, 1-9.	1.9	15
32	A vehicular networkâ€‘based intelligent transport system for smart cities. International Journal of Distributed Sensor Networks, 2019, 15, 155014771988884.	2.2	15
33	Improved Electrical Properties Displayed by Mg ₂₊ -Substituted Cobalt Ferrite Nano Particles, Prepared Via Co-precipitation Route. Journal of Superconductivity and Novel Magnetism, 2020, 33, 3133-3144.	1.8	15
34	Evolution towards Smart and Software-Defined Internet of Things. AI, 2022, 3, 100-123.	3.8	15
35	Reversible data hiding in homomorphically encrypted image using interpolation technique. Journal of Information Security and Applications, 2019, 48, 102374.	2.5	14
36	Computational Methods for Exudates Detection and Macular Edema Estimation in Retinal Images: A Survey. Archives of Computational Methods in Engineering, 2019, 26, 1193-1220.	10.2	14

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37	xFogSim: A Distributed Fog Resource Management Framework for Sustainable IoT Services. IEEE Transactions on Sustainable Computing, 2021, 6, 691-702.	3.1	14
38	Trajectory Design for UAV-Based Data Collection Using Clustering Model in Smart Farming. Sensors, 2022, 22, 37.	3.8	14
39	Classification and Mapping of Adaptive Security for Mobile Computing. IEEE Transactions on Emerging Topics in Computing, 2020, 8, 814-832.	4.6	13
40	Adaptive Security for Self-Protection of Mobile Computing Devices. Mobile Networks and Applications, 2023, 28, 1-20.	3.3	12
41	An Efficient Separable Reversible Data Hiding Using Paillier Cryptosystem for Preserving Privacy in Cloud Domain. Electronics (Switzerland), 2019, 8, 682.	3.1	12
42	Modeling, simulation and forecasting of wind power plants using agent-based approach. Journal of Cleaner Production, 2020, 276, 124172.	9.3	12
43	Sustainable Vehicle-Assisted Edge Computing for Big Data Migration in Smart Cities. IEEE Internet of Things Journal, 2020, 7, 1857-1871.	8.7	12
44	Over-the-Air Software-Defined Vehicle Updates Using Federated Fog Environment. IEEE Transactions on Network and Service Management, 2022, 19, 5078-5089.	4.9	11
45	Locality-aware process placement for parallel and distributed simulation in cloud data centers. Journal of Supercomputing, 2019, 75, 7723-7745.	3.6	9
46	A Water Evaluation and Planning-based framework for the long-term prediction of urban water demand and supply. Simulation, 2021, 97, 323-345.	1.8	9
47	SecureSurgiNET: A framework for ensuring security in telesurgery. International Journal of Distributed Sensor Networks, 2019, 15, 155014771987381.	2.2	8
48	Exploiting cooperative sensing for accurate target tracking in industrial Internet of things. International Journal of Distributed Sensor Networks, 2019, 15, 155014771989220.	2.2	8
49	Toward scalable cloud data center simulation using high-level architecture. Software - Practice and Experience, 2020, 50, 827-843.	3.6	8
50	A real-time man-in-loop threat evaluation and resource assignment in defense. Journal of the Operational Research Society, 2017, 68, 725-738.	3.4	7
51	High-Capacity Reversible Data Hiding in Encrypted Images Using Multi-Layer Embedding. IEEE Access, 2020, 8, 148997-149010.	4.2	7
52	A Review of Blockchain Empowered Vehicular Network: Performance Evaluation of Trusted Task Offloading Scheme. , 2021, , .		7
53	Mobile computing: issues and challenges. , 2015, , .		6
54	Fingerprinting SDN Policy Parameters: An Empirical Study. IEEE Access, 2020, 8, 142379-142392.	4.2	6

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55	Impact of data center placement on the power consumption of flexible-grid optical networks. Optical Engineering, 2020, 59, 1.	1.0	6
56	Mobile Cloud Computing Future Trends and Opportunities. Advances in Data Mining and Database Management Book Series, 2016, , 105-120.	0.5	6
57	Virtual Infrastructure Orchestration For Cloud Service Deployment. Computer Journal, 2020, 63, 295-307.	2.4	5
58	DYNAMIC BEHAVIOURAL MODELING, SIMULATION AND ANALYSIS OF HOUSEHOLD WATER CONSUMPTION IN AN URBAN AREA: A HYBRID APPROACH. , 2018, , .		4
59	Extraction and Analysis of RPE layer from OCT Images for Detection of Age Related Macular Degeneration. , 2018, , .		4
60	Utilization Driven Model for Server Consolidation in Cloud Data Centers. IEEE Access, 2020, 8, 1998-2007.	4.2	4
61	Centralized to Decentralized Social Networks. Advances in Data Mining and Database Management Book Series, 2016, , 37-54.	0.5	4
62	MPJ Express Meets YARN: Towards Java HPC on Hadoop Systems. Procedia Computer Science, 2015, 51, 2678-2682.	2.0	3
63	Classification of vessels as arteries verses veins using hybrid features for diagnosis of hypertensive retinopathy. , 2016, , .		3
64	A multi-agent framework for cloud-based management of collaborative robots. International Journal of Advanced Robotic Systems, 2018, 15, 172988141878507.	2.1	3
65	MedCloud: Cloud-Based Disease Surveillance and Information Management System. IEEE Access, 2020, 8, 81271-81282.	4.2	3
66	Adaptive-Learning-Based Vehicle-to-Vehicle Opportunistic Resource-Sharing Framework. IEEE Internet of Things Journal, 2022, 9, 12497-12504.	8.7	3
67	A Reliable Learning Based Task Offloading Framework for Vehicular Edge Computing. , 2022, , .		3
68	GSAN: Green Cloud-Simulation for Storage Area Networks. , 2013, , .		2
69	Cloud to Cloudlet - An Intelligent Recommendation System for Efficient Resources Management: Mobile Cache. , 2016, , .		2
70	Correction to: Services and simulation frameworks for vehicular cloud computing: a contemporary survey. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	2
71	Time-bound single-path opportunistic forwarding in disconnected industrial environments. Vehicular Communications, 2021, 27, 100302.	4.0	2
72	Real-time decision support system for resource optimization & management of threat evaluation and weapon assignment engineering in air defence. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
73	Cloud and E-commerce adoption. , 2015, , .		1
74	Data Center Modeling and Simulation Using OMNeT++. , 2015, , 839-855.		1
75	Crash me if you can: Rethinking sustainable Data Center Networking from a topological perspective. , 2016, , .		1
76	Optimization of decision support system based on three-stage threat evaluation and resource management. , 2017, , .		1
77	A generic framework for application streaming service. Computers and Electrical Engineering, 2018, 66, 149-161.	4.8	1
78	SEECSSim - A Parallel and Distributed Simulation Framework for Mobile Devices. , 2018, , .		1
79	Towards Real-Time Opportunistic Scheduling of the Home Appliances Using Evolutionary Techniques. Advances in Intelligent Systems and Computing, 2019, , 803-814.	0.6	1
80	On-demand multi-hop forwarding for sustainable vehicular data transfer network. International Journal of Distributed Sensor Networks, 2021, 17, 155014772110151.	2.2	1
81	Aerial Threat Perception Architecture Using Data Mining. Communications in Computer and Information Science, 2010, , 297-305.	0.5	1
82	Ceaseless Virtual Appliance Streaming. Advances in Data Mining and Database Management Book Series, 2016, , 70-84.	0.5	1
83	Creating Active Space in ExRTL. , 0, , .		0
84	Context Aware Network Enabled Distributed Modeling and Simulation Framework. , 2007, , .		0
85	Distributed Autonomous System Based Design Technique to Enhance Synchronization Productivity in Simulations. , 2008, , .		0
86	Generic Framework for Stress Testing of Real-time Systems. , 2018, , .		0
87	Toward Distributed Heterogeneous Simulation Using Internet of Things. IEEE Internet of Things Journal, 2019, 6, 10472-10482.	8.7	0
88	SEECSSim: A toolkit for parallel and distributed simulations for mobile devices. Journal of Simulation, 2021, 15, 235-260.	1.5	0
89	UNIFIED METHODOLOGY FOR CLOUD STORAGE PROVIDERS' APIS AND PERFORMANCE ANALYSIS FOR EFFECTIVENESS OF THE APPROACH. , 2019, , .		0
90	Fog Enabled Federated Learning Framework for Vehicular Ad Hoc Networks (Vanets). SSRN Electronic Journal, 0, , .	0.4	0