Ashutosh Kumar Singh

List of Publications by Citations

136 papers	1,182 citations	17 h-index	27 g-index
170 ext. papers	1,685 ext. citations	1.8 avg, IF	5.78 L-index

#	Paper	IF	Citations
136	Long Short Term Memory Recurrent Neural Network (LSTM-RNN) Based Workload Forecasting Model For Cloud Datacenters. *Procedia Computer Science*, **2018**, 125, 676-682	1.6	126
135	Workload prediction in cloud using artificial neural network and adaptive differential evolution. *Future Generation Computer Systems*, **2018**, 81, 41-52	7.5	101
134	An optimal design of full adder based on 5-input majority gate in coplanar quantum-dot cellular automata. *Optik*, **2016**, 127, 8576-8591	2.5	69
133	Role of image thermography in early breast cancer detection- Past, present and future. *Computer Methods and Programs in Biomedicine*, **2020**, 183, 105074	6.9	43
132	Efficient design of reversible alu in quantum-dot cellular automata. *Optik*, **2016**, 127, 6172-6182	2.5	35
131	Comprehensive Literature Review on Machine Learning Structures for Web Spam Classification. *Procedia Computer Science*, **2015**, 70, 434-441	1.6	22
130	Data Privacy Protection Mechanisms in Cloud. *Data Science and Engineering*, **2018**, 3, 24-39	3.6	22
129	A Moving Base Station Strategy Using Fuzzy Logic for Lifetime Enhancement in Wireless Sensor Network **2011**,		20
128	Dynamic resource scaling in cloud using neural network and black hole algorithm **2016**,		20
127	A Probabilistic Approach for Guilty Agent Detection using Bigraph after Distribution of Sample Data. *Procedia Computer Science*, **2018**, 125, 662-668	1.6	18
126	Efficient design of coplanar ripple carry adder in QCA. *IET Circuits, Devices and Systems*, **2018**, 12, 594-605	1.1	18
125	Dynamic threshold based information leaker identification scheme. *Information Processing Letters*, **2019**, 147, 69-73	0.8	17
124	BiPhase adaptive learning-based neural network model for cloud datacenter workload forecasting. *Soft Computing*, **2020**, 24, 14593-14610	3.5	17
123	Web-Spam Features Selection Using CFS-PSO. *Procedia Computer Science*, **2018**, 125, 568-575	1.6	17
122	A Probability based Model for Data Leakage Detection using Bigraph **2017**,		17
121	Preserving Privacy of Patients Based on Re-identification Risk. *Procedia Computer Science*, **2015**, 70, 448-454	1.6	17
120	A Review on Online Testability for Reversible Logic. *Procedia Computer Science*, **2015**, 70, 384-391	1.6	17

119	Self directed learning based workload forecasting model for cloud resource management. *Information Sciences*, **2021**, 543, 345-366	7.7	17
118	A proactive autoscaling and energy-efficient VM allocation framework using online multi-resource neural network for cloud data center. *Neurocomputing*, **2021**, 426, 248-264	5.4	17
117	An efficient design of Quantum-dot Cellular Automata based 5-input majority gate with power analysis. *Microprocessors and Microsystems*, **2018**, 59, 103-117	2.4	16
116	Low Voltage High Output Impedance Bulk-Driven Quasi-Floating Gate Self-Biased High-Swing Cascode Current Mirror. *Circuits, Systems, and Signal Processing*, **2016**, 35, 2683-2703	2.2	16
115	Design and synthesis of reversible arithmetic and Logic Unit (ALU) **2014**,		15
114	Layer-based Privacy and Security Architecture for Cloud Data Sharing. *Journal of Communications Software and Systems*, **2019**, 15,	0.8	14
113	Solar photovoltaic tree and its end-of-life management using thermal and chemical treatments for material recovery. *Case Studies in Thermal Engineering*, **2019**, 14, 100474	5.6	13
112	In-depth Comparative Analysis of Reversible Gates for Designing Logic Circuits. *Procedia Computer Science*, **2018**, 125, 810-817	1.6	13
111	Low power high output impedance high bandwidth QFGMOS current mirror. *Microelectronics Journal*, **2014**, 45, 1132-1142	1.8	13
110	Effective solar power harnessing using a few novel solar tree designs and their performance assessment. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2019**, 41, 1828-1837	1.6	13
109	Low voltage high performance bulk driven quasi-floating gate based self-biased cascode current mirror. *Microelectronics Journal*, **2016**, 52, 124-133	1.8	12
108	Ensemble learning based predictive framework for virtual machine resource request prediction. *Neurocomputing*, **2020**, 397, 20-30	5.4	11
107	Testable Design of Reversible Circuits Using Parity Preserving Gates. *IEEE Design and Test*, **2018**, 35, 56-64	1.4	11
106	A new DFT methodology for k-CNOT reversible circuits and its implementation using quantum-dot cellular automata. *Optik*, **2016**, 127, 10593-10601	2.5	11
105	Design and Implementation of QCA D-Flip-Flops and RAM Cell Using Majority Gates. *Journal of Circuits, Systems and Computers*, **2019**, 28, 1950079	0.9	11
104	Reversible Logic Circuit Synthesis and Optimization Using Adaptive Genetic Algorithm. *Procedia Computer Science*, **2015**, 70, 407-413	1.6	11
103	A Comparative Evaluation of Data Leakage/Loss Prevention Systems (DLPS) **2017**,		11
102	A Quantum Approach Towards the Adaptive Prediction of Cloud Workloads. *IEEE Transactions on Parallel and Distributed Systems*, **2021**, 32, 2893-2905	3.7	11

101	Data Leakage Prevention: E-Mail Protection via Gateway. *Journal of Physics: Conference Series*, **2018**, 933, 012013	0.3	10
100	Design of Cost-Efficient QCA Reversible Circuits via Clock-Zone-Based Crossover. *International Journal of Theoretical Physics*, **2018**, 57, 3127-3140	1.1	10
99	Design of QCA-Based D Flip Flop and Memory Cell Using Rotated Majority Gate. *Advances in Intelligent Systems and Computing*, **2019**, 233-247	0.4	10
98	Link-based web spam detection using weight properties. *Journal of Intelligent Information Systems*, **2014**, 43, 129-145	2.1	10
97	A Confidentiality Preserving Data Leaker Detection Model for Secure Sharing of Cloud Data using Integrated Techniques **2019**,		10
96	Cloud datacenter workload estimation using error preventive time series forecasting models. *Cluster Computing*, **2020**, 23, 1363-1379	2.1	10
95	OP-MLB: An Online VM Prediction based Multi-objective Load Balancing Framework for Resource Management at Cloud Datacenter. *IEEE Transactions on Cloud Computing*, **2021**, 1-1	3.3	10
94	Toward Efficient Design of Reversible Logic Gates in Quantum-Dot Cellular Automata with Power Dissipation Analysis. *International Journal of Theoretical Physics*, **2018**, 57, 1167-1185	1.1	9
93	Efficient Design of Reversible Logic ALU Using Coplanar Quantum-Dot Cellular Automata. *Journal of Circuits, Systems and Computers*, **2018**, 27, 1850021	0.9	9
92	Multilayer perceptrons neural network based Web spam detection application **2013**,		9
91	Design and analysis of all-optical half-adder, half-subtractor and 4-bit decoder based on SOA-MZI configuration. *Optical and Quantum Electronics*, **2016**, 48, 1	2.4	8
90	Efficient Three Variables Reversible Logic Synthesis Using Mixed-polarity Toffoli Gate. *Procedia Computer Science*, **2015**, 70, 362-368	1.6	8
89	LINK-BASED SPAM ALGORITHMS IN ADVERSARIAL INFORMATION RETRIEVAL. *Cybernetics and Systems*, **2012**, 43, 459-475	1.9	8
88	Offline Testing of Reversible Logic Circuits: An Analysis. *The Integration VLSI Journal*, **2018**, 62, 50-67	1.4	7
87	Auto-adaptive learning-based workload forecasting in dynamic cloud environment. *International Journal of Computers and Applications*, **2020**, 1-11	0.8	7
86	Dynamic data leakage detection model based approach for MapReduce computational security in cloud **2016**,		7
85	A Probabilistic Model for Finding an Optimal Host Framework and Load Distribution in Cloud Environment. *Procedia Computer Science*, **2018**, 125, 683-690	1.6	6
84	High performance current mirrors using quasi-floating bulk. *Microelectronics Journal*, **2016**, 52, 11-22	1.8	6

83	Cloud Resource Demand Prediction using Differential Evolution based Learning **2019**,		6
82	TPRANK: CONTEND WITH WEB SPAM USING TRUST PROPAGATION. *Cybernetics and Systems*, **2014**, 45, 307-323	1.9	6
81	DCT based Secure Data Hiding for Intellectual Property Right Protection. *CSI Transactions on ICT*, **2014**, 2, 163-168	0.4	6
80	Minimization of Energy Consumption of Wireless Sensor Networks Using Fuzzy Logic **2011**,		6
79	Resource-efficient load-balancing framework for cloud data center networks. *ETRI Journal*, **2021**, 43, 53-63	1.4	6
78	OSC-MC: Online Secure Communication Model for Cloud Environment. *IEEE Communications Letters* , **2021**, 25, 2844-2848	3.8	6
77	MLPAM: A Machine Learning and Probabilistic Analysis Based Model for Preserving Security and Privacy in Cloud Environment. *IEEE Systems Journal*, **2021**, 15, 4248-4259	4.3	6
76	Design of Reversible Arithmetic Logic Unit with Built-In Testability. *IEEE Design and Test*, **2019**, 36, 54-61	1.4	5
75	Design and Analysis of Ultra-Low Power QCA Parity Generator Circuit. *Lecture Notes in Electrical Engineering*, **2018**, 347-354	0.2	5
74	Design and performance analysis of multiple all optical logic gates in a single photonic circuit. *Optical and Quantum Electronics*, **2016**, 48, 1	2.4	5
73	A review on dependence graph in social reasoning mechanism. *Artificial Intelligence Review*, **2015**, 43, 229-242	9.7	5
72	EFFICIENT METHODOLOGIES TO HANDLE HANGING PAGES USING VIRTUAL NODE. *Cybernetics and Systems*, **2011**, 42, 621-635	1.9	5
71	A Secure and Multiobjective Virtual Machine Placement Framework for Cloud Data Center. *IEEE Systems Journal*, **2021**, 1-12	4.3	5
70	Novel Inset Feed Circular Slotted Microstrip Antenna Using Multilayer Feed-Forward Back-Propagation and Radial Basis Function Neural Network. *The National Academy of Sciences, India*, **2020**, 43, 343-345	0.6	4
69	Digital Image Watermarking Using (2, 2) Visual Cryptography with DWT-SVD Based Watermarking. *Advances in Intelligent Systems and Computing*, **2019**, 77-86	0.4	4
68	Best Fit Sharing and Power Aware (BFSPA) Algorithm for VM placement in cloud environment **2017**,		4
67	Design of parity preserving combinational circuits using reversible gate **2016**,		4
66	A Fast Parkinson Disease Prediction Technique using PCA and Artificial Neural Network **2019**,		4

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65	Performance Assessment of Time Series Forecasting Models for Cloud Datacenter Networks Workload Prediction. *Wireless Personal Communications*, **2021**, 116, 1949-1969	1.9	4
64	Development of a virtualized networking lab using GNS3 and VMware workstation **2016**,		3
63	Network simulations and future technologies in teaching networking courses: Development of a laboratory model with Cisco Virtual Internet Routing Lab (Virl) **2016**,		3
62	Data Summarization Using Clustering and Classification: Spectral Clustering Combined with k-Means Using NFPH **2019**,		3
61	Weighted voting game based algorithm for joining a microscopic coalition **2013**,		3
60	Efficient methodologies to optimize Website for link structure based search engines **2013**,		3
59	Implementing privacy using modified tree and map technique **2017**,		3
58	Design of reversible multiplexer/de-multiplexer **2014**,		3
57	Design for Stuck-at Fault Testability in MCT based Reversible Circuits. *Defence Science Journal*, **2018** , 68, 381	1.4	3
56	Energy Aware Resource Efficient-(EARE) Server Consolidation Framework for Cloud Datacenter. *Lecture Notes in Electrical Engineering*, **2021**, 1455-1464	0.2	3
55	Decomposition Based Cloud Resource Demand Prediction Using Extreme Learning Machines. *Journal of Network and Systems Management*, **2020**, 28, 1775-1793	2.1	3
54	Online information leaker identification scheme for secure data sharing. *Multimedia Tools and Applications*, **2020**, 79, 31165-31182	2.5	3
53	A Review of Fake News Detection Methods using Machine Learning **2021**,		3
52	Stock Market Forecasting using Machine Learning: Today and Tomorrow **2019**,		3
51	A Cryptography and Machine Learning Based Authentication for Secure Data-Sharing in Federated Cloud Services Environment. *Journal of Applied Security Research*,1-24	0.9	3
50	Performance evaluation of metaheuristics algorithms for workload prediction in cloud environment. *Applied Soft Computing Journal*, **2021**, 113, 107895	7.5	3
49	Optimal VM Placement Model for Load Balancing in Cloud Data Centers **2019**,		2
48	An Efficient Single-Layer Crossing Based 4-Bit Shift Register Using QCA. *Advances in Intelligent Systems and Computing*, **2018**, 315-325	0.4	2

47	Non-Zero Multi-Valued Decision Diagram (NZMDD) Based Synthesis of Multi-Valued Logic (MVL) Functions. *Advanced Materials Research*, **2014**, 980, 172-178	0.5	2
46	Cyber schooling: A revolution for the education system **2014**,		2
45	PyBot: An Algorithm for Web Crawling **2011**,		2
44	OFP-TM: an online VM failure prediction and tolerance model towards high availability of cloud computing environments.. *Journal of Supercomputing*, **2022**, 78, 1-22	2.5	2
43	SecureIIoT Environment: Federated Learning empowered approach for Securing IIoT from Data Breach. *IEEE Transactions on Industrial Informatics*, **2022**, 1-1	11.9	2
42	GUIM-SMD: guilty user identification model using summation matrix-based distribution. *IET Information Security*, **2020**, 14, 773-782	1.4	2
41	Communication Cost Aware Resource Efficient Load Balancing (CARE-LB) Framework for Cloud Datacenter. *Recent Advances in Computer Science and Communications*, **2020**, 13,	0.6	2
40	Potential and Extention of Internet of Things. *Lecture Notes on Data Engineering and Communications Technologies*, **2020**, 542-551	0.4	2
39	Optimal Positioning of Base Station in Wireless Sensor Networks: A Survey. *Advances in Intelligent Systems and Computing*, **2014**, 1135-1143	0.4	2
38	A new algorithm for detection of link spam contributed by zero-out link pages. *Turkish Journal of Electrical Engineering and Computer Sciences*, **2016**, 24, 2106-2123	0.9	2
37	Fault detection in multiple controlled Fredkin circuits. *IET Circuits, Devices and Systems*, **2019**, 13, 723-729	1.1	2
36	Formulating an MVC Framework for Web Development in JAVA **2018**,		2
35	An Intelligent Traffic Entropy Learning based Load Management Model for Cloud Networks. *IEEE Networking Letters*, **2022**, 1-1	2.8	2
34	Distrust seed set propagation algorithm to detect web spam. *Journal of Intelligent Information Systems*, **2017**, 49, 213-235	2.1	1
33	Simplification and modification of multiple controlled Toffoli circuits for testability. *Journal of Computational Electronics*, **2019**, 18, 356-363	1.8	1
32	Efficient Methodologies to Determine the Relevancy of Hanging Pages Using Stability Analysis. *Cybernetics and Systems*, **2016**, 47, 376-391	1.9	1
31	Design of Low Power MAX Operator for Multi-valued Logic System. *Procedia Computer Science*, **2015**, 70, 428-433	1.6	1
30	An analysis of MVL neural operators using feed forward backpropagation: Realization and application of logic synthesis **2015**,		1

29	Incorporating weight properties in detection of web spam **2012**,		1
28	Solving hanging relevancy using genetic algorithm **2012**,		1
27	A novel approach for lifetime analysis of sensor network using fuzzy logic **2011**,		1
26	A Survey on Data Leakage Detection and Prevention. *SSRN Electronic Journal*,	1	1
25	SELI: statistical evaluation based leaker identification stochastic scheme for secure data sharing. *IET Communications*, **2020**, 14, 3607-3618	1.3	1
24	Clocking Schemes for QCA. *Studies in Computational Intelligence*, **2020**, 139-145	0.8	1
23	QCA Background. *Studies in Computational Intelligence*, **2020**, 9-31	0.8	1
22	Comprehensive and Comparative Analysis of Different Files Using CP-ABE. *Lecture Notes in Electrical Engineering*, **2021**, 189-198	0.2	1
21	Architecture, an Efficient Routing, Applications, and Challenges in Delay Tolerant Network **2019**,		1
20	Design for Stuck-at Fault Testability in Toffoli Fredkin Reversible Circuits. *The National Academy of Sciences, India*, **2021**, 44, 215-220	0.6	1
19	Design of Single-Bit Fault-Tolerant Reversible Circuits. *IEEE Design and Test*, **2021**, 38, 89-96	1.4	1
18	Biomedical Data Privacy Enhancement Architecture Based on Multi-Keyword Search Technique **2018**,		1
17	Efficient methodologies to overcome the effects of hanging pages in search engine optimisation. *International Journal of Web Engineering and Technology*, **2015**, 10, 129	0.3	0
16	Design of Reversible Gates in QCA. *Studies in Computational Intelligence*, **2020**, 47-61	0.8	0
15	Hybrid Method in Identifying the Fraud Detection in the Credit Card. *Lecture Notes on Data Engineering and Communications Technologies*, **2021**, 27-35	0.4	0
14	Design of Registers and Memory in QCA. *Studies in Computational Intelligence*, **2020**, 119-137	0.8	
13	Fundamental of Reversible Logic. *Studies in Computational Intelligence*, **2020**, 33-46	0.8	
12	Design of Arithmetic Logic Unit in QCA. *Studies in Computational Intelligence*, **2020**, 107-117	0.8	

LIST OF PUBLICATIONS

11	Designs of Adder Circuit in QCA. *Studies in Computational Intelligence*, **2020**, 63-95	0.8
10	Array Dividers in QCA. *Studies in Computational Intelligence*, **2020**, 97-106	0.8
9	Flooding and Forwarding Based on Efficient Routing Protocol. *Advances in Intelligent Systems and Computing*, **2021**, 215-223	0.4
8	A Lightweight Effective Randomized Caesar Cipher Algorithm for Security of Data. *Lecture Notes on Data Engineering and Communications Technologies*, **2021**, 411-419	0.4
7	Real-Time Human Locator and Advance Home Security Appliances. *Lecture Notes on Data Engineering and Communications Technologies*, **2021**, 37-49	0.4
6	Host Platform Security and Mobile Agent Classification: A Systematic Study. *Lecture Notes on Data Engineering and Communications Technologies*, **2021**, 1001-1010	0.4
5	An Organized Study on Data Divulge Elimination and Discernment. *Lecture Notes on Data Engineering and Communications Technologies*, **2021**, 569-578	0.4
4	Compendious Study of Interaction Protocols in Multiagent Systems. *International Journal of Engineering and Technology(UAE)*, **2018**, 7, 1	0.8
3	Correlation-based feature subset selection technique for web spam classification. *International Journal of Web Engineering and Technology*, **2018**, 13, 363	0.3
2	MACI: Malicious API Call Identifier Model to Secure the Host Platform. *Advances in Intelligent Systems and Computing*, **2022**, 309-320	0.4
1	A privacy-preserving model based on differential approach for sensitive data in cloud environment. *Multimedia Tools and Applications*,1	2.5