Virender Ranga

List of Publications by Year
in descending order

80 papers	1,246 citations	471371
		17 h-index

434063	
31 g-index	

104 all docs	104 docs citations	104 times ranked	835 citing authors

#	Article	IF	Citations
1	Machine Learning Based Intrusion Detection Systems for IoT Applications. Wireless Personal Communications, 2020, 111, 2287-2310.	1.8	188
2	Security of RPL Based 6LoWPAN Networks in the Internet of Things: A Review. IEEE Sensors Journal, 2020, 20, 5666-5690.	2.4	103
3	Statistical analysis of CIDDS-001 dataset for Network Intrusion Detection Systems using Distance-based Machine Learning. Procedia Computer Science, 2018, 125, 709-716.	1.2	79
4	Software-defined Networking-based DDoS Defense Mechanisms. ACM Computing Surveys, 2020, 52, 1-36.	16.1	76
5	ELNIDS: Ensemble Learning based Network Intrusion Detection System for RPL based Internet of Things. , 2019, , .		53
6	Multi-Robot Coordination Analysis, Taxonomy, Challenges and Future Scope. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 10.	2.0	53
7	Evaluation of Network Intrusion Detection Systems for RPL Based 6LoWPAN Networks in IoT. Wireless Personal Communications, 2019, 108, 1571-1594.	1.8	44
8	Voting extreme learning machine based distributed denial of service attack detection in cloud computing. Journal of Information Security and Applications, 2020, 53, 102532.	1.8	42
9	Optimized extreme learning machine for detecting DDoS attacks in cloud computing. Computers and Security, 2021, 105, 102260.	4.0	39
10	Mitigation of DIS flooding attacks in RPLâ€based 6LoWPAN networks. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3802.	2.6	36
11	Network Partitioning Recovery Mechanisms in WSANs: a Survey. Wireless Personal Communications, 2013, 72, 857-917.	1.8	34
12	Sentiment analysis of the Uri terror attack using Twitter. , 2017, , .		34
13	Cyber-physical security for IoT networks: a comprehensive review on traditional, blockchain and artificial intelligence based key-security. Complex & Intelligent Systems, 2022, 8, 3559-3591.	4.0	32
14	Attack and intrusion detection in cloud computing using an ensemble learning approach. International Journal of Information Technology (Singapore), 2021, 13, 565-571.	1.8	31
15	A Hybrid Timer Based Single Node Failure Recovery Approach for WSANs. Wireless Personal Communications, 2014, 77, 2155-2182.	1.8	26
16	Sensor enabled Internet of Things for smart cities. , 2016, , .		26
17	Addressing Flooding Attacks in IPv6-based Low Power and Lossy Networks. , 2019, , .		25
18	API Features Individualizing of Web Services: REST and SOAP. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 664-671.	0.2	23

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19	Relay node placement to heal partitioned wireless sensor networks. Computers and Electrical Engineering, 2015, 48, 371-388.	3.0	21
20	Detection and Analysis of TCP-SYN DDoS Attack in Software-Defined Networking. Wireless Personal Communications, 2021, 118, 2295-2317.	1.8	21
21	Defending DDoS against Software Defined Networks using Entropy. , 2019, , .		19
22	An IoT-VANET-Based Traffic Management System for Emergency Vehicles in a Smart City. Advances in Intelligent Systems and Computing, 2018, , 23-31.	0.5	18
23	CoSec-RPL: detection of copycat attacks in RPL based 6LoWPANs using outlier analysis. Telecommunication Systems, 2020, 75, 43-61.	1.6	17
24	Voting–based intrusion detection framework for securing software–defined networks. Concurrency Computation Practice and Experience, 2020, 32, e5927.	1.4	16
25	Analysis of Routing Attacks on RPL based 6LoWPAN Networks. International Journal of Grid and Distributed Computing, 2018, 11, 43-56.	0.8	15
26	UAVs assisted Network Partition Detection and Connectivity Restoration in Wireless Sensor and Actor Networks. Ad Hoc Networks, 2022, 130, 102823.	3.4	10
27	Intelligent Traffic Management System for Prioritizing Emergency Vehicles in a Smart City. International Journal of Engineering Transactions B: Applications, 2018, 31, .	0.6	9
28	Node Stability Aware Energy Efficient Single Node Failure Recovery Approach for WSANs. Malaysian Journal of Computer Science, 2016, 29, 106-123.	0.5	8
29	Relay node placement techniques in wireless sensor networks. , 2015, , .		7
30	Recovery of Lost Connectivity in Wireless Sensor and Actor Networks using Static Sensors as Bridge Routers. Procedia Computer Science, 2015, 70, 491-498.	1.2	7
31	The impact of copycat attack on RPL based 6LoWPAN networks in Internet of Things. Computing (Vienna/New York), 2020, 103, 1479.	3.2	7
32	Distributed denial of service attack detection in cloud computing using hybrid extreme learning machine. Turkish Journal of Electrical Engineering and Computer Sciences, 2021, 29, 1852-1870.	0.9	6
33	DDoS Attacks and Defense Mechanisms Using Machine Learning Techniques for SDN. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 193-214.	0.4	6
34	Detecting DDoS Attacks in Cloud Computing Using Extreme Learning Machine and Adaptive Differential Evolution. Wireless Personal Communications, 2022, 124, 2613-2636.	1.8	6
35	Meta-heuristics for relay node placement problem in wireless sensor networks. , 2016, , .		5
36	Restoration of lost connectivity of partitioned wireless sensor networks. Cogent Engineering, 2016, 3, 1186263.	1.1	5

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37	Meta-heuristic solution for relay nodes placement in constrained environment. , 2017, , .		5
38	Performance Evaluation of Machine Learning Classifiers on Internet of Things Security Dataset. International Journal of Control and Automation, 2018, 11, 11-24.	0.3	5
39	Parametric Analysis of Heart Attack Prediction Using Machine Learning Techniques. International Journal of Grid and Distributed Computing, 2018, 11, 37-48.	0.8	5
40	DDoS Attacks and Defense Mechanisms Using Machine Learning Techniques for SDN. , 2021, , 248-264.		5
41	MFZLP: Multihop Far Zone Leach Protocol for WSNs. Journal of Computational Intelligence and Electronic Systems, 2013, 2, 45-49.	0.1	5
42	Secure Remote E-Voting using Blockchain. , 2021, , .		4
43	Lost Connectivity Restoration in Partitioned Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2016, , 89-98.	0.5	4
44	LETSRP: A Secure Routing Protocol for Manets. International Journal of Engineering and Advanced Technology, 2019, 9, 498-504.	0.2	4
45	Placement of relay nodes in wireless sensor networks. , 2015, , .		3
46	DDoS Attacks Detection in Cloud Computing Using ANN and Imperialistic Competitive Algorithm. Algorithms for Intelligent Systems, 2022, , 253-263.	0.5	3
47	Healing Partitioned Wireless Sensor Networks. Lecture Notes in Computer Science, 2017, , 545-557.	1.0	3
48	Performance Analysis of WebRTC and SIP for Video Conferencing. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 679-686.	0.2	3
49	Comparative Study of Different Reduced Precision Techniques in Deep Neural Network. Lecture Notes in Networks and Systems, 2021, , 123-136.	0.5	3
50	EpilNet: A Novel Approach to IoT based Epileptic Seizure Prediction and Diagnosis System using Artificial Intelligence. Advances in Distributed Computing and Artificial Intelligence Journal, 2022, 10, 435-452.	1.1	3
51	A distributed approach for selection of optimal actor nodes in wireless sensor and actor networks. , 2014, , .		2
52	Automated human mind reading using EEG signals for seizure detection. Journal of Medical Engineering and Technology, 2020, 44, 237-246.	0.8	2
53	Addressing Copycat Attacks in IPv6-Based Low Power and Lossy Networks. Advances in Intelligent Systems and Computing, 2020, , 415-426.	0.5	2
54	A Cluster-Based Coordination and Communication Framework Using GA for WSANs. Lecture Notes in Electrical Engineering, 2014, , 111-124.	0.3	2

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55	Performance Evaluation Of Aodv, Dsr, Dsdv Mobile Ad-Hoc Protocols On Different Scenarios: An Analytical Review. International Journal of Advances in Computing and Information Technology, 2012, 1, .	0.1	2
56	Whale Optimizer to Repair Partitioned Heterogeneous Wireless Sensor Networks. International Journal of Grid and Distributed Computing, 2018, 11, 11-28.	0.8	2
57	Syntactic Interoperability in Real-Time Systems, ROS 2, and Adaptive AUTOSAR Using Data Distribution Services: An Approach. Lecture Notes in Networks and Systems, 2020, , 257-274.	0.5	2
58	A multi-criterion fuzzy logic intra-cluster and inter-cluster-based stable cluster head election approach in large scale WSN. International Journal of Communication Networks and Distributed Systems, 2016, 17, 433.	0.3	1
59	Ant colony based IP traceback scheme. International Journal of Information Technology (Singapore), 2018, 10, 447-455.	1.8	1
60	Target Tracking with Cooperative Networked Robots. , 2020, , .		1
61	Critical power analysis for control path of a CAT-M based edge device. International Journal of Information Technology (Singapore), 2021, 13, 845-855.	1.8	1
62	Distributed Denial of Service Attacks and Defense in Cloud Computing. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 41-59.	0.3	1
63	Security Challenges in Fog Computing. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 148-164.	0.3	1
64	Pathological Analysis of Blood Cells Using Deep Learning Techniques. Recent Advances in Computer Science and Communications, 2020, 13, .	0.5	1
65	Partition detection and recovery by UAVs in damaged WSANs using Nâ€angle clustering. International Journal of Communication Systems, 0, , .	1.6	1
66	Network connectivity maintenance of WSNs in node failure-prone environment: A detailed survey. , 2014, , .		0
67	Modified Max-Min Algorithm for Game Theory. , 2015, , .		0
68	An Obstacle-Resistant Relay Node Placement in Constrained Environment. , 2016, , .		0
69	Distributed Denial of Service Attacks and Defense in Cloud Computing. , 2021, , 522-540.		0
70	Towards Utilizing Blockchain for Countering Distributed Denial-of-Service (DDoS). Advances in Information Security, Privacy, and Ethics Book Series, 2021, , 35-58.	0.4	0
71	Addressing Spoofed DDoS Attacks in Software-defined Networking. , 2021, , .		0
72	A multi-criterion fuzzy logic intra-cluster and inter-cluster-based stable cluster head election approach in large scale WSN. International Journal of Communication Networks and Distributed Systems, 2016, 17, 433.	0.3	0

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73	Relay node placement in constrained environment. , 2016, , .		0
74	Particle Swarm Optimization for Disconnected Wireless Sensor Networks. Lecture Notes in Networks and Systems, 2017, , 413-421.	0.5	0
75	Federating Disjoint Segments in Wireless Sensor Networks Using Jumping Particle Swarm Optimization. , 2018, , 559-568.		0
76	A New Centralized Solution for Multi-event Wireless Sensor and Actor Networks. International Journal of Advanced Science and Technology, 2018, 116, 59-74.	0.3	0
77	Swarm Intelligence-based Partitioned Recovery in Wireless Sensor Networks. Journal of Telecommunications and Information Technology, 2018, 3, 70-81.	0.3	0
78	Hybrid Traceback Scheme for DDoS Attacks. Advances in Intelligent Systems and Computing, 2019, , 131-138.	0.5	0
79	To Evaluate Performance of Routing Protocols Using Reliable LET in MANETs. International Journal of Sensors, Wireless Communications and Control, 2019, 09, .	0.5	0
80	Multilayer Perceptron and Genetic Algorithm-Based Intrusion Detection Framework for Cloud Environment. Lecture Notes in Networks and Systems, 2021, , 475-485.	0.5	0