

Virender Ranga

List of Publications by Year in descending order

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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	DDoS Attacks Detection in Cloud Computing Using ANN and Imperialistic Competitive Algorithm. Algorithms for Intelligent Systems, 2022, , 253-263.	0.5	3
2	Detecting DDoS Attacks in Cloud Computing Using Extreme Learning Machine and Adaptive Differential Evolution. Wireless Personal Communications, 2022, 124, 2613-2636.	1.8	6
3	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
4	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
5	UAVs assisted Network Partition Detection and Connectivity Restoration in Wireless Sensor and Actor Networks. Ad Hoc Networks, 2022, 130, 102823.	3.4	10
6	Distributed Denial of Service Attacks and Defense in Cloud Computing. , 2021, , 522-540.		0
7	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
8	DDoS Attacks and Defense Mechanisms Using Machine Learning Techniques for SDN. , 2021, , 248-264.		5
9	Detection and Analysis of TCP-SYN DDoS Attack in Software-Defined Networking. Wireless Personal Communications, 2021, 118, 2295-2317.	1.8	21
10	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
11	Multi-Robot Coordination Analysis, Taxonomy, Challenges and Future Scope. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 10.	2.0	53
12	Addressing Spoofed DDoS Attacks in Software-defined Networking. , 2021, , .		0
13	Secure Remote E-Voting using Blockchain. , 2021, , .		4
14	Optimized extreme learning machine for detecting DDoS attacks in cloud computing. Computers and Security, 2021, 105, 102260.	4.0	39
15	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
16	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
17	Comparative Study of Different Reduced Precision Techniques in Deep Neural Network. Lecture Notes in Networks and Systems, 2021, , 123-136.	0.5	3
18	Multilayer Perceptron and Genetic Algorithm-Based Intrusion Detection Framework for Cloud Environment. Lecture Notes in Networks and Systems, 2021, , 475-485.	0.5	0

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19	Software-defined Networking-based DDoS Defense Mechanisms. ACM Computing Surveys, 2020, 52, 1-36.	16.1	76
20	Mitigation of DIS flooding attacks in RPL-based 6LoWPAN networks. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3802.	2.6	36
21	Machine Learning Based Intrusion Detection Systems for IoT Applications. Wireless Personal Communications, 2020, 111, 2287-2310.	1.8	188
22	Voting-based intrusion detection framework for securing software-defined networks. Concurrency Computation Practice and Experience, 2020, 32, e5927.	1.4	16
23	Automated human mind reading using EEG signals for seizure detection. Journal of Medical Engineering and Technology, 2020, 44, 237-246.	0.8	2
24	The impact of copycat attack on RPL based 6LoWPAN networks in Internet of Things. Computing (Vienna/New York), 2020, 103, 1479.	3.2	7
25	Target Tracking with Cooperative Networked Robots. , 2020, , .		1
26	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
27	CoSec-RPL: detection of copycat attacks in RPL based 6LoWPANs using outlier analysis. Telecommunication Systems, 2020, 75, 43-61.	1.6	17
28	Addressing Copycat Attacks in IPv6-Based Low Power and Lossy Networks. Advances in Intelligent Systems and Computing, 2020, , 415-426.	0.5	2
29	Security of RPL Based 6LoWPAN Networks in the Internet of Things: A Review. IEEE Sensors Journal, 2020, 20, 5666-5690.	2.4	103
30	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
31	Pathological Analysis of Blood Cells Using Deep Learning Techniques. Recent Advances in Computer Science and Communications, 2020, 13, .	0.5	1
32	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
33	Defending DDoS against Software Defined Networks using Entropy. , 2019, , .		19
34	ELNIDS: Ensemble Learning based Network Intrusion Detection System for RPL based Internet of Things. , 2019, , .		53
35	Evaluation of Network Intrusion Detection Systems for RPL Based 6LoWPAN Networks in IoT. Wireless Personal Communications, 2019, 108, 1571-1594.	1.8	44
36	Addressing Flooding Attacks in IPv6-based Low Power and Lossy Networks. , 2019, , .		25

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37	API Features Individualizing of Web Services: REST and SOAP. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 664-671.	0.2	23
38	Performance Analysis of WebRTC and SIP for Video Conferencing. International Journal of Innovative Technology and Exploring Engineering, 2019, 8, 679-686.	0.2	3
39	Distributed Denial of Service Attacks and Defense in Cloud Computing. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 41-59.	0.3	1
40	Hybrid Traceback Scheme for DDoS Attacks. Advances in Intelligent Systems and Computing, 2019, , 131-138.	0.5	0
41	Security Challenges in Fog Computing. Advances in Wireless Technologies and Telecommunication Book Series, 2019, , 148-164.	0.3	1
42	To Evaluate Performance of Routing Protocols Using Reliable LET in MANETs. International Journal of Sensors, Wireless Communications and Control, 2019, 09, .	0.5	0
43	LETSRP: A Secure Routing Protocol for Manets. International Journal of Engineering and Advanced Technology, 2019, 9, 498-504.	0.2	4
44	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
45	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
46	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
47	Parametric Analysis of Heart Attack Prediction Using Machine Learning Techniques. International Journal of Grid and Distributed Computing, 2018, 11, 37-48.	0.8	5
48	Ant colony based IP traceback scheme. International Journal of Information Technology (Singapore), 2018, 10, 447-455.	1.8	1
49	Analysis of Routing Attacks on RPL based 6LoWPAN Networks. International Journal of Grid and Distributed Computing, 2018, 11, 43-56.	0.8	15
50	Intelligent Traffic Management System for Prioritizing Emergency Vehicles in a Smart City. International Journal of Engineering Transactions B: Applications, 2018, 31, .	0.6	9
51	Federating Disjoint Segments in Wireless Sensor Networks Using Jumping Particle Swarm Optimization. , 2018, , 559-568.		0
52	Whale Optimizer to Repair Partitioned Heterogeneous Wireless Sensor Networks. International Journal of Grid and Distributed Computing, 2018, 11, 11-28.	0.8	2
53	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
54	Swarm Intelligence-based Partitioned Recovery in Wireless Sensor Networks. Journal of Telecommunications and Information Technology, 2018, 3, 70-81.	0.3	0

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55	Sentiment analysis of the Uri terror attack using Twitter. , 2017, , .		34
56	Meta-heuristic solution for relay nodes placement in constrained environment. , 2017, , .		5
57	Healing Partitioned Wireless Sensor Networks. Lecture Notes in Computer Science, 2017, , 545-557.	1.0	3
58	Particle Swarm Optimization for Disconnected Wireless Sensor Networks. Lecture Notes in Networks and Systems, 2017, , 413-421.	0.5	0
59	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
60	Sensor enabled Internet of Things for smart cities. , 2016, , .		26
61	Meta-heuristics for relay node placement problem in wireless sensor networks. , 2016, , .		5
62	An Obstacle-Resistant Relay Node Placement in Constrained Environment. , 2016, , .		0
63	Restoration of lost connectivity of partitioned wireless sensor networks. Cogent Engineering, 2016, 3, 1186263.	1.1	5
64	Lost Connectivity Restoration in Partitioned Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2016, , 89-98.	0.5	4
65	Node Stability Aware Energy Efficient Single Node Failure Recovery Approach for WSNs. Malaysian Journal of Computer Science, 2016, 29, 106-123.	0.5	8
66	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
67	Relay node placement in constrained environment. , 2016, , .		0
68	Modified Max-Min Algorithm for Game Theory. , 2015, , .		0
69	Relay node placement techniques in wireless sensor networks. , 2015, , .		7
70	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
71	Placement of relay nodes in wireless sensor networks. , 2015, , .		3
72	Relay node placement to heal partitioned wireless sensor networks. Computers and Electrical Engineering, 2015, 48, 371-388.	3.0	21

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73	A distributed approach for selection of optimal actor nodes in wireless sensor and actor networks. , 2014, , .		2
74	A Hybrid Timer Based Single Node Failure Recovery Approach for WSANs. Wireless Personal Communications, 2014, 77, 2155-2182.	1.8	26
75	Network connectivity maintenance of WSNs in node failure-prone environment: A detailed survey. , 2014, , .		0
76	A Cluster-Based Coordination and Communication Framework Using GA for WSANs. Lecture Notes in Electrical Engineering, 2014, , 111-124.	0.3	2
77	Network Partitioning Recovery Mechanisms in WSANs: a Survey. Wireless Personal Communications, 2013, 72, 857-917.	1.8	34
78	MFZLP: Multihop Far Zone Leach Protocol for WSNs. Journal of Computational Intelligence and Electronic Systems, 2013, 2, 45-49.	0.1	5
79	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
80	Partition detection and recovery by UAVs in damaged WSANs using Nangle clustering. International Journal of Communication Systems, 0, , .	1.6	1