Krishan Kumar

List of Publications by Year in descending order

100 papers	1,837 citations	331259 21 h-index	329751 37 g-index
101 all docs	101 docs citations	101 times ranked	1076 citing authors

#	Article	IF	Citations
1	Face mask detection using YOLOv3 and faster R-CNN models: COVID-19 environment. Multimedia Tools and Applications, 2021, 80, 19753-19768.	2.6	160
2	The use of artificial intelligence based techniques for intrusion detection: a review. Artificial Intelligence Review, 2010, 34, 369-387.	9.7	101
3	Detection of DDoS attacks and flash events using novel information theory metrics. Computer Networks, 2017, 116, 96-110.	3.2	89
4	D-FACE: An anomaly based distributed approach for early detection of DDoS attacks and flash events. Journal of Network and Computer Applications, 2018, 111, 49-63.	5.8	83
5	An efficient technique for object recognition using Shi-Tomasi corner detection algorithm. Soft Computing, 2021, 25, 4423-4432.	2.1	78
6	Application layer HTTP-GET flood DDoS attacks: Research landscape and challenges. Computers and Security, 2017, 65, 344-372.	4.0	76
7	A Distributed Approach using Entropy to Detect DDoS Attacks in ISP Domain. , 2007, , .		58
8	A comprehensive survey of service function chain provisioning approaches in SDN and NFV architecture. Computer Science Review, 2020, 38, 100298.	10.2	56
9	A comprehensive approach to discriminate DDoS attacks from flash events. Journal of Information Security and Applications, 2016, 26, 8-22.	1.8	51
10	Characterizing flash events and distributed denial-of-service attacks: an empirical investigation. Security and Communication Networks, 2016, 9, 2222-2239.	1.0	43
11	Trends in Validation of DDoS Research. Procedia Computer Science, 2016, 85, 7-15.	1.2	40
12	Detection of DDoS attacks and flash events using information theory metrics—An empirical investigation. Computer Communications, 2017, 103, 18-28.	3.1	40
13	Design of an Evolutionary Approach for Intrusion Detection. Scientific World Journal, The, 2013, 2013, 1-14.	0.8	39
14	Characterizing DDoS attacks and flash events: Review, research gaps and future directions. Computer Science Review, 2017, 25, 101-114.	10.2	39
15	User behavior analytics-based classification of application layer HTTP-GET flood attacks. Journal of Network and Computer Applications, 2018, 112, 97-114.	5.8	39
16	Digital image forgery detection: a systematic scrutiny. Australian Journal of Forensic Sciences, 2019, 51, 488-526.	0.7	38
17	Gait recognition based on vision systems: A systematic survey. Journal of Visual Communication and Image Representation, 2021, 75, 103052.	1.7	37
18	Fusion of Handcrafted and Deep Features for Forgery Detection in Digital Images. IEEE Access, 2021, 9, 99742-99755.	2.6	37

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19	QoS routing protocols for mobile ad hoc networks: a survey. International Journal of Wireless and Mobile Computing, 2012, 5, 107.	0.1	33
20	A systematic review of IP traceback schemes for denial of service attacks. Computers and Security, 2016, 56, 111-139.	4.0	30
21	SPREADING OF COVID-19 IN INDIA, ITALY, JAPAN, SPAIN, UK, US. Digital Government Research and Practice (DGOV), 2020, 1, 1-9.	1.2	30
22	A review on P4-Programmable data planes: Architecture, research efforts, and future directions. Computer Communications, 2021, 170, 109-129.	3.1	29
23	Intrusion detection techniques in network environment: a systematic review. Wireless Networks, 2021, 27, 1269-1285.	2.0	26
24	Detection and Honeypot Based Redirection to Counter DDoS Attacks in ISP Domain. , 2007, , .		25
25	The Use of Artificial-Intelligence-Based Ensembles for Intrusion Detection: A Review. Applied Computational Intelligence and Soft Computing, 2012, 2012, 1-20.	1.6	21
26	A Traffic Cluster Entropy Based Approach to Distinguish DDoS Attacks from Flash Event Using DETER Testbed. ISRN Communications and Networking, 2014, 2014, 1-15.	0.5	21
27	Detection of HELLO flood attack on LEACH protocol. , 2014, , .		21
28	An efficient approach for copy-move image forgery detection using convolution neural network. Multimedia Tools and Applications, 2022, 81, 11259-11277.	2.6	21
29	Performance Analysis of Web Service under DDoS Attacks. , 2009, , .		20
30	A review of QoS routing protocols in MANETs. , 2013, , .		20
31	A survey on named data networking. , 2015, , .		19
32	Network security â€" an updated perspective. Systems Science and Control Engineering, 2014, 2, 325-334.	1.8	17
33	Network Lifetime Enhancement of Homogeneous Sensor Network Using ART1 Neural Network. , 2014, , .		16
34	S-DDoS: Apache spark based real-time DDoS detection system. Journal of Intelligent and Fuzzy Systems, 2020, 38, 6527-6535.	0.8	16
35	A comprehensive survey of DDoS defense solutions in SDN: Taxonomy, research challenges, and future directions. Computers and Security, 2021, 110, 102423.	4.0	15
36	A comprehensive survey of image and video forgery techniques: variants, challenges, and future directions. Multimedia Systems, 2022, 28, 939-992.	3.0	15

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37	An information theoretic approach for feature selection. Security and Communication Networks, 2012, 5, 178-185.	1.0	14
38	D-FAC: A novel Ï•-Divergence based distributed DDoS defense system. Journal of King Saud University - Computer and Information Sciences, 2021, 33, 291-303.	2.7	14
39	The Use of Multi-Objective Genetic Algorithm Based Approach to Create Ensemble of ANN for Intrusion Detection. International Journal of Intelligence Science, 2012, 02, 115-127.	0.6	14
40	Traffic aware load balancing in AOMDV for mobile Ad-hoc networks. Journal of Communications and Information Networks, 2017, 2, 123-130.	3.5	13
41	Modeling and simulation of adaptive Neuro-fuzzy based intelligent system for predictive stabilization in structured overlay networks. Engineering Science and Technology, an International Journal, 2017, 20, 310-320.	2.0	13
42	Distributed frameworks for detecting distributed denial of service attacks: A comprehensive review, challenges and future directions. Concurrency Computation Practice and Experience, 2021, 33, e6197.	1.4	13
43	Traceback techniques against DDOS attacks: A comprehensive review. , 2011, , .		12
44	Simulation study of application layer DDoS attack. , 2015, , .		12
45	E-Had: A distributed and collaborative detection framework for early detection of DDoS attacks. Journal of King Saud University - Computer and Information Sciences, 2019, , .	2.7	11
46	Destination Address Entropy based Detection and Traceback Approach against Distributed Denial of Service Attacks. International Journal of Computer Network and Information Security, 2015, 7, 9-20.	1.8	11
47	SSK-DDoS: distributed stream processing framework based classification system for DDoS attacks. Cluster Computing, 2022, 25, 1355-1372.	3.5	11
48	Characterization and comparison of Distributed Denial of Service attack tools. , 2015, , .		10
49	Deployment of Distributed Defense against DDoS Attacks in ISP Domain. International Journal of Computer Applications, 2011, 15, 25-31.	0.2	10
50	Defending MANETs against flooding attacks for military applications under group mobility. , 2014, , .		9
51	A generalized detection system to detect distributed denial of service attacks and flash events for information theory metrics. Turkish Journal of Electrical Engineering and Computer Sciences, 2018, 26, 1759-1770.	0.9	9
52	AI based supervised classifiers. , 2011, , .		7
53	An experimental analysis for malware detection using extrusions. , 2011, , .		7
54	A Multi-objective Genetic Algorithm Based Approach for Effective Intrusion Detection Using Neural Networks. Studies in Computational Intelligence, 2015, , 173-200.	0.7	7

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55	Anomaly based detection of Black Hole Attack on leach protocol in WSN. , 2016, , .		7
56	An Eagle-Eye View of Recent Digital Image Forgery Detection Methods. Communications in Computer and Information Science, 2018, , 469-487.	0.4	7
57	Apache Hadoop Based Distributed Denial of Service Detection Framework. Communications in Computer and Information Science, 2019, , 25-35.	0.4	7
58	Machine Learning based Indoor Localization Techniques for Wireless Sensor Networks. , 2020, , .		7
59	Modeling and simulation of DDoS attack using Omnet++. , 2014, , .		6
60	Stable Energy efficient QoS based Congestion and Delay aware Routing (SEQCDR) Protocol for MANETs. , 2015, , .		6
61	DDOS attack in WSN: A survey. , 2016, , .		6
62	Impact analysis of application layer DDoS attacks on web services: a simulation study. International Journal of Intelligent Engineering Informatics, 2017, 5, 80.	0.1	6
63	KS-DDoS: Kafka streams-based classification approach for DDoS attacks. Journal of Supercomputing, 2022, 78, 8946-8976.	2.4	6
64	Classification of DDoS attack tools and its handling techniques and strategy at application layer. , 2016, , .		5
65	An anomaly based distributed detection system for DDoS attacks in Tier-2 ISP networks. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 1387-1406.	3.3	5
66	Real-Time DDoS Detection Based on Entropy Using Hadoop Framework. Advances in Intelligent Systems and Computing, 2020, , 297-305.	0.5	5
67	Load Balanced and Link Break Prediction Routing Protocol for Mobile Ad Hoc Networks. Journal of Communications, 2017, , 353-363.	1.3	5
68	Nature Inspired Feature Selection Approach for Effective Intrusion Detection. Indian Journal of Science and Technology, 2016, 9, .	0.5	5
69	An emulation based impact analysis of DDoS attacks on web services during flash events. , 2011, , .		4
70	A novel evaluation function for feature selection based upon information theory. , 2011, , .		3
71	Analysis of different churn models in chord based overlay networks. , 2014, , .		3
72	Performance Analysis of Predictive Stabilization for Churn Handling in Structured Overlay Networks. , 2016, , .		3

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73	Comparative Analysis of Different Keypoint Based Copy-Move Forgery Detection Methods. , 2018, , .		3
74	A Review of Security Threats inÂSoftware-Defined Networking. Algorithms for Intelligent Systems, 2021, , 123-131.	0.5	3
75	An ISP level Distributed Approach to Detect DDoS Attacks. , 2007, , 235-240.		3
76	Characterizing DDoS Attack Distributions from Emulation Based Experiments on DETER Testbed. Lecture Notes in Computer Science, 2012, , 541-550.	1.0	3
77	A Technique for Human Upper Body Parts Movement Tracking. IETE Journal of Research, 2023, 69, 7874-7883.	1.8	3
78	Analysis of DDoS Attacks in Software Defined Networking. , 2022, , .		3
79	Partially Visible Lane Detection with Hierarchical Supervision Approach. IETE Journal of Research, 0, , 1-9.	1.8	3
80	Shared Based Rate Limiting: An ISP level Solution to Deal DDoS Attacks. , 2006, , .		2
81	Secure Overlay Services (SOS): A critical analysis. , 2012, , .		2
82	Performance enhancement of a Malware Detection System using score based prioritization of snort rules. , 2015, , .		2
83	A Persistent Structured Hierarchical Overlay Network to Counter Intentional Churn Attack. Journal of Computer Networks and Communications, 2016, 2016, 1-15.	1.2	2
84	Overlay based defensive architecture to survive DDoS: A comparative study. Journal of High Speed Networks, 2017, 23, 67-91.	0.6	2
85	DDoS Defense Mechanisms for SDN Control Plane. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 1045-1058.	0.5	2
86	A Study of OpenStack Networking andÂAuto-Scaling Using Heat Orchestration Template. Algorithms for Intelligent Systems, 2021, , 169-176.	0.5	2
87	Analysis of Selective Forwarding Attacks in Wireless Sensor Networks. International Journal of Computer Applications, 2012, 49, 10-14.	0.2	2
88	Towards an Open-Source NFV Management and Orchestration Framework. , 2022, , .		2
89	Distinguishing DDoS Attack from Flash Event Using Real-World Datasets with Entropy as an Evaluation Metric. , 2013, , .		1
90	QoS Improvement in AOMDV through Backup and Stable Path Routing. , 2015, , .		1

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91	Churn handling strategies for structured overlay networks: A survey. Multiagent and Grid Systems, 2017, 13, 331-351.	0.5	1
92	Characterization of splicing in digital images using gray scale co-occurrence matrices. , 2019, , .		1
93	Pragmatic Analysis of Machine Learning Techniques in Network Based IDS. Communications in Computer and Information Science, 2019, , 422-430.	0.4	1
94	Artificial Intelligence for Cybersecurity: Recent Advancements, Challenges and Opportunities. Studies in Computational Intelligence, 2022, , 73-88.	0.7	1
95	Predicting Number of Attackers Using Regression Anlaysis. , 2007, , .		0
96	Terminology for Network Layer Multicast Routing Protocols in MANETs. , 2014, , .		0
97	Enhanced job scheduling algorithm with budget constraints in computational grids. , 2016, , .		0
98	MAC based Approaches for Multicast Source Authentication. International Journal of Computer Applications, 2012, 37, 42-50.	0.2	0
99	Queuing Algorithms Performance against Buffer Size and Attack Intensities in DDOS Attacks. Lecture Notes in Computer Science, 2012, , 534-540.	1.0	0
100	Load Balanced and Link Break Prediction Routing Protocol for Mobile Ad hoc Networks. International Journal of Future Generation Communication and Networking, 2017, 10, 25-44.	0.7	0