

Zhiyuan Tan

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

2,318
citations

304368

22
h-index

233125

45
g-index

88
all docs

88
docs citations

88
times ranked

2108
citing authors

#	ARTICLE	IF	CITATIONS
1	Building an Intrusion Detection System Using a Filter-Based Feature Selection Algorithm. IEEE Transactions on Computers, 2016, 65, 2986-2998.	2.4	436
2	A System for Denial-of-Service Attack Detection Based on Multivariate Correlation Analysis. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 447-456.	4.0	195
3	A caching and spatial overflow="scroll" id="d1e566" altimg="si254.gif"> <mml:mi>K</mml:mi> </mml:math>-anonymity driven privacy enhancement scheme in continuous location-based services. Future Generation Computer Systems, 2019, 94, 40-50.	4.9	137
4	A Novel Cost Optimization Strategy for SDN-Enabled UAV-Assisted Vehicular Computation Offloading. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3664-3674.	4.7	130
5	Detection of Denial-of-Service Attacks Based on Computer Vision Techniques. IEEE Transactions on Computers, 2015, 64, 2519-2533.	2.4	119
6	A Novel Web Attack Detection System for Internet of Things via Ensemble Classification. IEEE Transactions on Industrial Informatics, 2021, 17, 5810-5818.	7.2	89
7	A VMD and LSTM Based Hybrid Model of Load Forecasting for Power Grid Security. IEEE Transactions on Industrial Informatics, 2022, 18, 6474-6482.	7.2	88
8	Deep learning based emotion analysis of microblog texts. Information Fusion, 2020, 64, 1-11.	11.7	73
9	RePIDS: A multi tier Real-time Payload-based Intrusion Detection System. Computer Networks, 2013, 57, 811-824.	3.2	64
10	Enhancing Big Data Security with Collaborative Intrusion Detection. IEEE Cloud Computing, 2014, 1, 27-33.	5.3	63
11	Urban data management system: Towards Big Data analytics for Internet of Things based smart urban environment using customized Hadoop. Future Generation Computer Systems, 2019, 96, 398-409.	4.9	60
12	FPDP: Flexible Privacy-Preserving Data Publishing Scheme for Smart Agriculture. IEEE Sensors Journal, 2021, 21, 17430-17438.	2.4	55
13	Vehicular Computation Offloading for Industrial Mobile Edge Computing. IEEE Transactions on Industrial Informatics, 2021, 17, 7871-7881.	7.2	49
14	A Robust Authentication Scheme for Observing Resources in the Internet of Things Environment. , 2014, , .		45
15	SmartEdge: An end-to-end encryption framework for an edge-enabled smart city application. Journal of Network and Computer Applications, 2019, 137, 1-10.	5.8	45
16	Building Scalable Cyber-Physical-Social Networking Infrastructure Using IoT and Low Power Sensors. IEEE Access, 2018, 6, 30162-30173.	2.6	44
17	Copy-move forgery detection using combined features and transitive matching. Multimedia Tools and Applications, 2019, 78, 30081-30096.	2.6	41
18	Design of multi-view based email classification for IoT systems via semi-supervised learning. Journal of Network and Computer Applications, 2019, 128, 56-63.	5.8	40

#	ARTICLE	IF	CITATIONS
19	Denial-of-Service Attack Detection Based on Multivariate Correlation Analysis. Lecture Notes in Computer Science, 2011, , 756-765.	1.0	36
20	Improving cloud network security using the Tree-Rule firewall. Future Generation Computer Systems, 2014, 30, 116-126.	4.9	36
21	Performance of Cognitive Radio Sensor Networks Using Hybrid Automatic Repeat ReQuest: Stop-and-Wait. Mobile Networks and Applications, 2018, 23, 479-488.	2.2	26
22	A Secured Data Management Scheme for Smart Societies in Industrial Internet of Things Environment. IEEE Access, 2018, 6, 43088-43099.	2.6	25
23	A Novel Feature Selection Approach for Intrusion Detection Data Classification. , 2014, , .		24
24	A Secured and Efficient Communication Scheme for Decentralized Cognitive Radio-Based Internet of Vehicles. IEEE Access, 2019, 7, 160889-160900.	2.6	23
25	A comprehensive survey of security threats and their mitigation techniques for next-generation SDN controllers. Concurrency Computation Practice and Experience, 2020, 32, e5300.	1.4	23
26	KNN-Based Approximate Outlier Detection Algorithm Over IoT Streaming Data. IEEE Access, 2020, 8, 42749-42759.	2.6	23
27	A Quality of Service-Aware Secured Communication Scheme for Internet of Things-Based Networks. Sensors, 2019, 19, 4321.	2.1	18
28	Network Intrusion Detection based on LDA for payload feature selection. , 2010, , .		16
29	Block-Sparse Coding-Based Machine Learning Approach for Dependable Device-Free Localization in IoT Environment. IEEE Internet of Things Journal, 2021, 8, 3211-3223.	5.5	15
30	Towards an energy balancing solution for wireless sensor network with mobile sink node. Computer Communications, 2021, 170, 50-64.	3.1	15
31	Intrusion detection using CSAD model for HTTP traffic on web services. , 2010, , .		14
32	Security for Cyber-Physical Systems in Healthcare. , 2017, , 233-251.		14
33	A 3D Smooth Random Walk Mobility Model for FANETs. , 2019, , .		14
34	Intrusion Detection Using Geometrical Structure. , 2009, , .		13
35	Triangle-Area-Based Multivariate Correlation Analysis for Effective Denial-of-Service Attack Detection. , 2012, , .		12
36	An Intrusion Detection System Based on Polynomial Feature Correlation Analysis. , 2017, , .		12

#	ARTICLE	IF	CITATIONS
37	Hybrid Tree-Rule Firewall for High Speed Data Transmission. IEEE Transactions on Cloud Computing, 2020, 8, 1237-1249.	3.1	12
38	A framework for data security in cloud using collaborative intrusion detection scheme. , 2017, , .		10
39	ARCA-IoT: An Attack-Resilient Cloud-Assisted IoT System. IEEE Access, 2019, 7, 19616-19630.	2.6	10
40	FairEdge: A Fairness-Oriented Task Offloading Scheme for IoT Applications in Mobile Cloudlet Networks. IEEE Access, 2020, 8, 13516-13526.	2.6	10
41	Intrusion detection method based on nonlinear correlation measure. International Journal of Internet Protocol Technology, 2014, 8, 77.	0.2	9
42	A Stateful Mechanism for the Tree-Rule Firewall. , 2014, , .		7
43	Mobility Aware Duty Cycling Algorithm (MADCAL) A Dynamic Communication Threshold for Mobile Sink in Wireless Sensor Network. Sensors, 2019, 19, 4930.	2.1	7
44	Deep Learning and Dempster-Shafer Theory Based Insider Threat Detection. Mobile Networks and Applications, 0, , 1.	2.2	7
45	Multivariate Correlation Analysis Technique Based on Euclidean Distance Map for Network Traffic Characterization. Lecture Notes in Computer Science, 2011, , 388-398.	1.0	7
46	A novel flow-vector generation approach for malicious traffic detection. Journal of Parallel and Distributed Computing, 2022, 169, 72-86.	2.7	7
47	O-ADPI: Online Adaptive Deep-Packet Inspector Using Mahalanobis Distance Map for Web Service Attacks Classification. IEEE Access, 2019, 7, 167141-167156.	2.6	6
48	Decrypting live SSH traffic in virtual environments. Digital Investigation, 2019, 29, 109-117.	3.2	6
49	Secure Information Transmissions in Wireless-Powered Cognitive Radio Networks for Internet of Medical Things. Security and Communication Networks, 2020, 2020, 1-10.	1.0	6
50	A novel nomad migration-inspired algorithm for global optimization. Computers and Electrical Engineering, 2022, 100, 107862.	3.0	6
51	Conceptual text region network: Cognition-inspired accurate scene text detection. Neurocomputing, 2021, 464, 252-264.	3.5	5
52	Building towards Automated Cyberbullying Detection: A Comparative Analysis. Computational Intelligence and Neuroscience, 2022, 2022, 1-20.	1.1	5
53	Towards Designing an Email Classification System Using Multi-view Based Semi-supervised Learning. , 2014, , .		4
54	Deriving ChaCha20 key streams from targeted memory analysis. Journal of Information Security and Applications, 2019, 48, 102372.	1.8	4

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55	FIMPA: A Fixed Identity Mapping Prediction Algorithm in Edge Computing Environment. IEEE Access, 2020, 8, 17356-17365.	2.6	4
56	Automatic Generation of Adversarial Metamorphic Malware Using MAP-Elites. Lecture Notes in Computer Science, 2020, , 117-132.	1.0	4
57	A Two-Tier System for Web Attack Detection Using Linear Discriminant Method. Lecture Notes in Computer Science, 2010, , 459-471.	1.0	4
58	Nowhere Metamorphic Malware Can Hide - A Biological Evolution Inspired Detection Scheme. Communications in Computer and Information Science, 2019, , 369-382.	0.4	4
59	PFARS: Enhancing throughput and lifetime of heterogeneous WSNs through power-aware fusion, aggregation, and routing scheme. International Journal of Communication Systems, 2019, 32, e4144.	1.6	3
60	A Learning-Based Vehicle-Trajectory Generation Method for Vehicular Networking. , 2019, , .		3
61	PTAOD: A Novel Framework for Supporting Approximate Outlier Detection Over Streaming Data for Edge Computing. IEEE Access, 2020, 8, 1475-1485.	2.6	3
62	Improving Classification of Metamorphic Malware by Augmenting Training Data with a Diverse Set of Evolved Mutant Samples. , 2020, , .		3
63	Double-Arc Parallel Coordinates and its Axes re-Ordering Methods. Mobile Networks and Applications, 2020, 25, 1376-1391.	2.2	3
64	A mobility aware duty cycling and preamble solution for wireless sensor network with mobile sink node. Wireless Networks, 2021, 27, 3423-3439.	2.0	3
65	Evaluation Mechanism for Decentralized Collaborative Pattern Learning in Heterogeneous Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 13123-13132.	4.7	3
66	An Improvement of Tree-Rule Firewall for a Large Network: Supporting Large Rule Size and Low Delay. , 2016, , .		2
67	Mobility Aware Duty Cycling Algorithm (MADCAL) in Wireless Sensor Network with Mobile Sink Node. , 2019, , .		2
68	A New Mobility Aware Duty Cycling and Dynamic Preamble Algorithm for Wireless Sensor Network. , 2020, , .		2
69	IEEE Access Special Section Editorial: Security and Trusted Computing for Industrial Internet of Things: Research Challenges and Opportunities. IEEE Access, 2020, 8, 145033-145036.	2.6	2
70	A novel tensor-information bottleneck method for multi-input single-output applications. Computer Networks, 2021, 193, 108088.	3.2	2
71	Newly engineered energy-based features for supervised anomaly detection in a physical model of a water supply system. Ad Hoc Networks, 2021, 120, 102590.	3.4	2
72	An Approach to Evolving Legacy Enterprise System to Microservice-Based Architecture through Feature-Driven Evolution Rules. International Journal of Computer Theory and Engineering, 2018, 10, 164-169.	3.2	2

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73	Exploring coupled images fusion based on joint tensor decomposition. Human-centric Computing and Information Sciences, 2020, 10, .	6.1	2
74	Evaluation on multivariate correlation analysis based denial-of-service attack detection system. , 2012, , .		1
75	NgramPOS: a bigram-based linguistic and statistical feature process model for unstructured text classification. Wireless Networks, 2018, , 1.	2.0	1
76	On Privacy Aware Carriers for Value-Possessed e-Invoices Considering Intelligence Mining. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 641-652.	3.4	1
77	Blockchain for edge-enabled smart cities applications. Journal of Information Security and Applications, 2021, 61, 102937.	1.8	1
78	A Chain Topology for Efficient Monitoring of Food Grain Storage using Smart Sensors. , 2018, , .		1
79	Web Service Locating Unit in RFID-Centric Anti-counterfeit System. , 2009, , .		0
80	Message from the SECSOC 2017 Workshop Chairs. , 2017, , .		0
81	Multi-Miner's Cooperative Evolution Method of Bitcoin Pool Based on Temporal Difference Learning Method. , 2019, , .		0
82	Deep Learning in Mobile Computing: Architecture, Applications, and Future Challenges. Mobile Information Systems, 2021, 2021, 1-3.	0.4	0
83	Editorial: Big data technologies and applications. Wireless Networks, 2022, 28, 1163-1167.	2.0	0
84	A Chain Topology for Efficient Monitoring of Food Grain Storage using Smart Sensors. , 2018, , .		0
85	A Multi-attributes-Based Trust Model of Internet of Vehicle. Lecture Notes in Computer Science, 2019, , 706-713.	1.0	0
86	Towards Continuous User Authentication Using Personalised Touch-Based Behaviour. , 2020, , .		0
87	Toward machine intelligence that learns to fingerprint polymorphic worms in IoT. International Journal of Intelligent Systems, 0, , .	3.3	0
88	Machine Learning: The Cyber-Security, Privacy, and Public Safety Opportunities and Challenges for Emerging Applications. Security and Communication Networks, 2021, 2021, 1-2.	1.0	0