

Jun Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

133
papers

10,422
citations

136950

32
h-index

34986

98
g-index

138
all docs

138
docs citations

138
times ranked

7864
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Mobile Edge Computing: The Communication Perspective. IEEE Communications Surveys and Tutorials, 2017, 19, 2322-2358.	39.4	3,379
2	Dynamic Computation Offloading for Mobile-Edge Computing With Energy Harvesting Devices. IEEE Journal on Selected Areas in Communications, 2016, 34, 3590-3605.	14.0	1,285
3	The Roadmap to 6G: AI Empowered Wireless Networks. IEEE Communications Magazine, 2019, 57, 84-90.	6.1	1,139
4	Robust Network Traffic Classification. IEEE/ACM Transactions on Networking, 2015, 23, 1257-1270.	3.8	291
5	Network Traffic Classification Using Correlation Information. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 104-117.	5.6	262
6	Detecting and Preventing Cyber Insider Threats: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 1397-1417.	39.4	246
7	Data-Driven Cybersecurity Incident Prediction: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1744-1772.	39.4	216
8	Software Vulnerability Detection Using Deep Neural Networks: A Survey. Proceedings of the IEEE, 2020, 108, 1825-1848.	21.3	214
9	Security and privacy in 6G networks: New areas and new challenges. Digital Communications and Networks, 2020, 6, 281-291.	5.0	206
10	Android HIV: A Study of Repackaging Malware for Evading Machine-Learning Detection. IEEE Transactions on Information Forensics and Security, 2020, 15, 987-1001.	6.9	182
11	A Survey of Android Malware Detection with Deep Neural Models. ACM Computing Surveys, 2021, 53, 1-36.	23.0	156
12	Deep Learning Based Attack Detection for Cyber-Physical System Cybersecurity: A Survey. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 377-391.	13.1	150
13	Cross-Project Transfer Representation Learning for Vulnerable Function Discovery. IEEE Transactions on Industrial Informatics, 2018, 14, 3289-3297.	11.3	135
14	Internet Traffic Classification by Aggregating Correlated Naive Bayes Predictions. IEEE Transactions on Information Forensics and Security, 2013, 8, 5-15.	6.9	134
15	Statistical Features-Based Real-Time Detection of Drifted Twitter Spam. IEEE Transactions on Information Forensics and Security, 2017, 12, 914-925.	6.9	101
16	An Effective Network Traffic Classification Method with Unknown Flow Detection. IEEE Transactions on Network and Service Management, 2013, 10, 133-147.	4.9	98
17	A Performance Evaluation of Machine Learning-Based Streaming Spam Tweets Detection. IEEE Transactions on Computational Social Systems, 2015, 2, 65-76.	4.4	95
18	Twitter spam detection based on deep learning. , 2017, , .		92

#	ARTICLE	IF	CITATIONS
19	Modeling Propagation Dynamics of Social Network Worms. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1633-1643.	5.6	87
20	Internet Traffic Classification Using Constrained Clustering. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 2932-2943.	5.6	81
21	Lazy Collaborative Filtering for Data Sets With Missing Values. IEEE Transactions on Cybernetics, 2013, 43, 1822-1834.	9.5	79
22	Addressing the class imbalance problem in Twitter spam detection using ensemble learning. Computers and Security, 2017, 69, 35-49.	6.0	78
23	Data-Driven Cyber Security in Perspectiveâ€”Intelligent Traffic Analysis. IEEE Transactions on Cybernetics, 2020, 50, 3081-3093.	9.5	78
24	6 million spam tweets: A large ground truth for timely Twitter spam detection. , 2015, , .		75
25	Unsupervised traffic classification using flow statistical properties and IP packet payload. Journal of Computer and System Sciences, 2013, 79, 573-585.	1.2	69
26	Fuzzy-Based Information Decomposition for Incomplete and Imbalanced Data Learning. IEEE Transactions on Fuzzy Systems, 2017, 25, 1476-1490.	9.8	59
27	Machine Learningâ€”based Cyber Attacks Targeting on Controlled Information. ACM Computing Surveys, 2022, 54, 1-36.	23.0	59
28	Modeling and Analysis on the Propagation Dynamics of Modern Email Malware. IEEE Transactions on Dependable and Secure Computing, 2014, 11, 361-374.	5.4	58
29	Secure buyerâ€”seller watermarking protocol. IEE Proceedings - Information Security, 2006, 153, 15.	1.9	57
30	CSEdge: Enabling Collaborative Edge Storage for Multi-Access Edge Computing Based on Blockchain. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1873-1887.	5.6	55
31	Software Vulnerability Discovery via Learning Multi-Domain Knowledge Bases. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 2469-2485.	5.4	52
32	DeepBalance: Deep-Learning and Fuzzy Oversampling for Vulnerability Detection. IEEE Transactions on Fuzzy Systems, 2019, , 1-1.	9.8	50
33	Anomaly-Based Insider Threat Detection Using Deep Autoencoders. , 2018, , .		40
34	Investigating the deceptive information in Twitter spam. Future Generation Computer Systems, 2017, 72, 319-326.	7.5	38
35	Cyber Vulnerability Intelligence for Internet of Things Binary. IEEE Transactions on Industrial Informatics, 2020, 16, 2154-2163.	11.3	34
36	A novel semi-supervised approach for network traffic clustering. , 2011, , .		32

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37	Internet traffic clustering with side information. Journal of Computer and System Sciences, 2014, 80, 1021-1036.	1.2	32
38	Statistical Twitter Spam Detection Demystified: Performance, Stability and Scalability. IEEE Access, 2017, 5, 11142-11154.	4.2	31
39	The efficient imputation method for neighborhood-based collaborative filtering. , 2012, , .		29
40	A3CM: Automatic Capability Annotation for Android Malware. IEEE Access, 2019, 7, 147156-147168.	4.2	29
41	CD-VulD: Cross-Domain Vulnerability Discovery Based on Deep Domain Adaptation. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 438-451.	5.4	28
42	Effective watermarking scheme in the encrypted domain for buyerâ€seller watermarking protocol. Information Sciences, 2010, 180, 4672-4684.	6.9	26
43	Camera Model Identification With Unknown Models. IEEE Transactions on Information Forensics and Security, 2015, 10, 2692-2704.	6.9	26
44	Detecting spamming activities in twitter based on deepâ€learning technique. Concurrency Computation Practice and Experience, 2017, 29, e4209.	2.2	25
45	Visualization of big data security: a case study on the KDD99 cup data set. Digital Communications and Networks, 2017, 3, 250-259.	5.0	25
46	Code analysis for intelligent cyber systems: A data-driven approach. Information Sciences, 2020, 524, 46-58.	6.9	25
47	Content Based Image Retrieval Using Unclean Positive Examples. IEEE Transactions on Image Processing, 2009, 18, 2370-2375.	9.8	24
48	JFCGuard: Detecting juice filming charging attack via processor usage analysis on smartphones. Computers and Security, 2018, 76, 252-264.	6.0	22
49	Insider Threat Identification Using the Simultaneous Neural Learning of Multi-Source Logs. IEEE Access, 2019, 7, 183162-183176.	4.2	22
50	Statistical Detection of Online Drifting Twitter Spam. , 2016, , .		21
51	Lightweight and Certificateless Multi-Receiver Secure Data Transmission Protocol for Wireless Body Area Networks. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 1464-1475.	5.4	21
52	Spammers Are Becoming "Smarter" on Twitter. IT Professional, 2016, 18, 66-70.	1.5	20
53	Deep Learning-Based Vulnerable Function Detection: A Benchmark. Lecture Notes in Computer Science, 2020, , 219-232.	1.3	19
54	Asymmetric self-learning for tackling Twitter Spam Drift. , 2015, , .		18

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55	Hybrid threshold adaptable quantum secret sharing scheme with reverse Huffman-Fibonacci-tree coding. Scientific Reports, 2016, 6, 31350.	3.3	18
56	Secure medical digital twin via human-centric interaction and cyber vulnerability resilience. Connection Science, 2022, 34, 895-910.	3.0	18
57	Exploring Feature Coupling and Model Coupling for Image Source Identification. IEEE Transactions on Information Forensics and Security, 2018, 13, 3108-3121.	6.9	17
58	Local aggregation function learning based on support vector machines. Signal Processing, 2009, 89, 2291-2295.	3.7	15
59	Series feature aggregation for content-based image retrieval. Computers and Electrical Engineering, 2010, 36, 691-701.	4.8	14
60	Data-Driven Android Malware Intelligence: A Survey. Lecture Notes in Computer Science, 2019, , 183-202.	1.3	14
61	Medical Image Retrieval with Query-Dependent Feature Fusion Based on One-Class SVM. , 2010, , .		13
62	Robust network traffic identification with unknown applications. , 2013, , .		13
63	Network traffic clustering using Random Forest proximities. , 2013, , .		13
64	Deep Neural Embedding for Software Vulnerability Discovery: Comparison and Optimization. Security and Communication Networks, 2022, 2022, 1-12.	1.5	13
65	Enhanced Twitter Sentiment Analysis by Using Feature Selection and Combination. , 2015, , .		12
66	A Hybrid Key Agreement Scheme for Smart Homes Using the Merkle Puzzle. IEEE Internet of Things Journal, 2020, 7, 1061-1071.	8.7	12
67	Deep neural-based vulnerability discovery demystified: data, model and performance. Neural Computing and Applications, 2021, 33, 13287-13300.	5.6	12
68	Domain adaptation for Windows advanced persistent threat detection. Computers and Security, 2022, 112, 102496.	6.0	12
69	Cyber Code Intelligence for Android Malware Detection. IEEE Transactions on Cybernetics, 2023, 53, 617-627.	9.5	12
70	Comprehensive Analysis of Network Traffic Data. , 2016, , .		11
71	Deep-learnt features for Twitter spam detection. , 2018, , .		11
72	Intelligent Intraoperative Haptic-AR Navigation for COVID-19 Lung Biopsy Using Deep Hybrid Model. IEEE Transactions on Industrial Informatics, 2021, 17, 6519-6527.	11.3	11

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73	Comprehensive analysis of network traffic data. Concurrency Computation Practice and Experience, 2018, 30, e4181.	2.2	10
74	Noise-Resistant Statistical Traffic Classification. IEEE Transactions on Big Data, 2019, 5, 454-466.	6.1	10
75	Secure Image Retrieval Based on Visual Content and Watermarking Protocol. Computer Journal, 2011, 54, 1661-1674.	2.4	9
76	A noisy-smoothing relevance feedback method for content-based medical image retrieval. Multimedia Tools and Applications, 2014, 73, 1963-1981.	3.9	9
77	Augmented-reality-driven medical simulation platform for percutaneous nephrolithotomy with cybersecurity awareness. International Journal of Distributed Sensor Networks, 2019, 15, 155014771984017.	2.2	9
78	Semi-supervised and Compound Classification of Network Traffic. , 2012, , .		8
79	Big network traffic data visualization. Multimedia Tools and Applications, 2018, 77, 11459-11487.	3.9	8
80	AdaM. , 2013, , .		7
81	Zero-Day Traffic Identification. Lecture Notes in Computer Science, 2013, , 213-227.	1.3	7
82	Privacy Intelligence: A Survey on Image Privacy in Online Social Networks. ACM Computing Surveys, 2023, 55, 1-35.	23.0	7
83	Internet traffic clustering with constraints. , 2012, , .		6
84	Medical image retrieval based on unclean image bags. Multimedia Tools and Applications, 2014, 72, 2977-2999.	3.9	6
85	Privacy Protection in Interactive Content Based Image Retrieval. IEEE Transactions on Dependable and Secure Computing, 2019, , 1-1.	5.4	6
86	Classification of Correlated Internet Traffic Flows. , 2012, , .		5
87	Recent Advances in Security and Privacy for Wireless Sensor Networks. Journal of Sensors, 2015, 2015, 1-2.	1.1	5
88	Recent Advances in Security and Privacy for Wireless Sensor Networks 2016. Journal of Sensors, 2017, 2017, 1-3.	1.1	5
89	Unsupervised Insider Detection Through Neural Feature Learning and Model Optimisation. Lecture Notes in Computer Science, 2019, , 18-36.	1.3	5
90	On Addressing the Imbalance Problem: A Correlated KNN Approach for Network Traffic Classification. Lecture Notes in Computer Science, 2014, , 138-151.	1.3	5

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91	Fuzzy-Based Feature and Instance Recovery. Lecture Notes in Computer Science, 2016, , 605-615.	1.3	5
92	Data Analytics of Crowdsourced Resources for Cybersecurity Intelligence. Lecture Notes in Computer Science, 2020, , 3-21.	1.3	5
93	Watermarking protocol of secure verification. Journal of Electronic Imaging, 2007, 16, 043002.	0.9	4
94	Real-time gait classification based on fuzzy associative memory. International Journal of Modelling, Identification and Control, 2010, 10, 263.	0.2	4
95	Semi-supervised and compound classification of network traffic. International Journal of Security and Networks, 2012, 7, 252.	0.2	4
96	Robust image retrieval with hidden classes. Computer Vision and Image Understanding, 2013, 117, 670-679.	4.7	4
97	Traffic Identification in Big Internet Data. , 2016, , 129-156.		4
98	A Data-driven Attack against Support Vectors of SVM. , 2018, , .		4
99	A Quantum Secret Sharing Scheme Using Orbital Angular Momentum onto Multiple Spin States Based on Fibonacci Compression Encoding. Communications in Theoretical Physics, 2018, 70, 384.	2.5	4
100	Neural Model Stealing Attack to Smart Mobile Device on Intelligent Medical Platform. Wireless Communications and Mobile Computing, 2020, 2020, 1-10.	1.2	4
101	Intelligent detection of vulnerable functions in software through neural embedding-based code analysis. International Journal of Network Management, 2023, 33, .	2.2	4
102	Image retrieval based on bag of images. , 2009, , .		3
103	Traffic Identification in Semi-known Network Environment. , 2013, , .		3
104	Fast and simple high-capacity quantum cryptography with error detection. Scientific Reports, 2017, 7, 46302.	3.3	3
105	JSCSP: a Novel Policy-Based XSS Defense Mechanism for Browsers. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	5.4	3
106	Watermarking protocol for protecting user's right in content based image retrieval. , 2009, , .		2
107	Ranking Method for Optimizing Precision/Recall of Content-Based Image Retrieval. , 2009, , .		2
108	A New Re-Ranking Method Using Enhanced Pseudo-Relevance Feedback for Content-Based Medical Image Retrieval. IEICE Transactions on Information and Systems, 2012, E95-D, 694-698.	0.7	2

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109	The maximum imputation framework for neighborhood-based collaborative filtering. Social Network Analysis and Mining, 2014, 4, 1.	2.8	2
110	Security and reliability in big data. Concurrency Computation Practice and Experience, 2016, 28, 581-582.	2.2	2
111	Trustworthy blockchain-based medical Internet of thing for minimal invasive surgery training simulator. Concurrency Computation Practice and Experience, 2022, 34, e5816.	2.2	2
112	Trustworthy Image Fusion with Deep Learning for Wireless Applications. Wireless Communications and Mobile Computing, 2021, 2021, 1-9.	1.2	2
113	Unmasking Windows Advanced Persistent Threat Execution. , 2020, , .		2
114	Properties of series feature aggregation schemes. World Review of Science, Technology and Sustainable Development, 2010, 7, 100.	0.4	1
115	QDFA: Query-Dependent Feature Aggregation for Medical Image Retrieval. IEICE Transactions on Information and Systems, 2012, E95-D, 275-279.	0.7	1
116	Robust Traffic Classification with Mislabeled Training Samples. , 2015, , .		1
117	Comments and Corrections. IEEE Transactions on Computational Social Systems, 2016, 3, 42-42.	4.4	1
118	Noisy Smoothing Image Source Identification. Lecture Notes in Computer Science, 2017, , 135-147.	1.3	1
119	Imputing trust network information in NMF-based collaborative filtering. , 2018, , .		1
120	Video denoising for security and privacy in fog computing. Concurrency Computation Practice and Experience, 2019, 31, e4763.	2.2	1
121	A Visualization-Based Analysis on Classifying Android Malware. Lecture Notes in Computer Science, 2019, , 304-319.	1.3	1
122	Image Speckle Denoising for Securing Internet of Smart Sensors. Security and Communication Networks, 2021, 2021, 1-10.	1.5	1
123	A new watermarking protocol against conspiracy. Wuhan University Journal of Natural Sciences, 2006, 11, 1671-1674.	0.4	0
124	Electronic payment scheme to prevent the treachery. Wuhan University Journal of Natural Sciences, 2006, 11, 1745-1748.	0.4	0
125	An Enhanced Watermarking Protocol for Electronic Copyright Management. , 2006, , .		0
126	Image retrieval using noisy query. , 2009, , .		0

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127	An improved clustering for action recognition in online video. , 2011, , .		0
128	Flow-based traffic retrieval using statistical features. , 2016, , .		0
129	Message from the SocialSec 2016 Program Chairs. , 2016, , .		0
130	Editorial: Recent advances in machine learning for cybersecurity. Concurrency Computation Practice and Experience, 2019, 31, e5270.	2.2	0
131	SDCCP: Control the network using softwareâ€defined networking and endâ€toâ€end congestion control. Concurrency Computation Practice and Experience, 2020, , e5716.	2.2	0
132	Machine Learning-Based Online Source Identification for Image Forensics. , 2021, , 27-56.		0
133	Distributed Detection of Zero-Day Network Traffic Flows. Communications in Computer and Information Science, 2018, , 173-191.	0.5	0