

Jun Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

6,172
citations

27
h-index

78
g-index

138
ext. papers

8,255
ext. citations

4.8
avg. IF

6.58
L-index

#	Paper	IF	Citations
123	Deep Neural Embedding for Software Vulnerability Discovery: Comparison and Optimization. <i>Security and Communication Networks</i> , 2022 , 2022, 1-12	1.9	1
122	TAESim: A Testbed for IoT Security Analysis of Trigger-Action Environment. <i>Lecture Notes in Computer Science</i> , 2022 , 218-237	0.9	1
121	Domain adaptation for Windows advanced persistent threat detection. <i>Computers and Security</i> , 2022 , 112, 102496	4.9	2
120	Machine Learning-Based Cyber Attacks Targeting on Controlled Information. <i>ACM Computing Surveys</i> , 2022 , 54, 1-36	13.4	24
119	Secure medical digital twin via human-centric interaction and cyber vulnerability resilience. <i>Connection Science</i> , 2022 , 34, 895-910	2.8	8
118	CSEdge: Enabling Collaborative Edge Storage for Multi-access Edge Computing based on Blockchain. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2021 , 1-1	3.7	5
117	Image Speckle Denoising for Securing Internet of Smart Sensors. <i>Security and Communication Networks</i> , 2021 , 2021, 1-10	1.9	
116	Deep neural-based vulnerability discovery demystified: data, model and performance. <i>Neural Computing and Applications</i> , 2021 , 33, 13287	4.8	1
115	Trustworthy Image Fusion with Deep Learning for Wireless Applications. <i>Wireless Communications and Mobile Computing</i> , 2021 , 2021, 1-9	1.9	1
114	Machine Learning-Based Online Source Identification for Image Forensics 2021 , 27-56		
113	Deep Learning Based Attack Detection for Cyber-Physical System Cybersecurity: A Survey. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021 , 1-15	7	27
112	A Survey of Android Malware Detection with Deep Neural Models. <i>ACM Computing Surveys</i> , 2021 , 53, 1-36	13.4	43
111	Intelligent Intraoperative Haptic-AR Navigation for COVID-19 Lung Biopsy Using Deep Hybrid Model. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 6519-6527	11.9	5
110	A Hybrid Key Agreement Scheme for Smart Homes Using the Merkle Puzzle. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 1061-1071	10.7	6
109	CD-Vuld: Cross-Domain Vulnerability Discovery based on Deep Domain Adaptation. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 1-1	3.9	9
108	Software Vulnerability Detection Using Deep Neural Networks: A Survey. <i>Proceedings of the IEEE</i> , 2020 , 108, 1825-1848	14.3	69
107	SDCCP: Control the network using software-defined networking and end-to-end congestion control. <i>Concurrency Computation Practice and Experience</i> , 2020 , e5716	1.4	

106	Code analysis for intelligent cyber systems: A data-driven approach. <i>Information Sciences</i> , 2020 , 524, 46-58	7.7	17
105	. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 1-1	3.9	5
104	Data Analytics of Crowdsourced Resources for Cybersecurity Intelligence. <i>Lecture Notes in Computer Science</i> , 2020 , 3-21	0.9	2
103	Unmasking Windows Advanced Persistent Threat Execution 2020 ,		2
102	Deep Learning-Based Vulnerable Function Detection: A Benchmark. <i>Lecture Notes in Computer Science</i> , 2020 , 219-232	0.9	4
101	Data-Driven Cyber Security in Perspective-Intelligent Traffic Analysis. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3081-3093	10.2	47
100	Cyber Vulnerability Intelligence for Internet of Things Binary. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 2154-2163	11.9	15
99	Software Vulnerability Discovery via Learning Multi-Domain Knowledge Bases. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 1-1	3.9	17
98	Security and privacy in 6G networks: New areas and new challenges. <i>Digital Communications and Networks</i> , 2020 , 6, 281-291	5.9	76
97	Neural Model Stealing Attack to Smart Mobile Device on Intelligent Medical Platform. <i>Wireless Communications and Mobile Computing</i> , 2020 , 2020, 1-10	1.9	3
96	JSCSP: a Novel Policy-Based XSS Defense Mechanism for Browsers. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2020 , 1-1	3.9	1
95	Trustworthy blockchain-based medical Internet of thing for minimal invasive surgery training simulator. <i>Concurrency Computation Practice and Experience</i> , 2020 , e5816	1.4	1
94	Android HIV: A Study of Repackaging Malware for Evading Machine-Learning Detection. <i>IEEE Transactions on Information Forensics and Security</i> , 2020 , 15, 987-1001	8	100
93	. <i>IEEE Access</i> , 2019 , 7, 147156-147168	3.5	16
92	The Roadmap to 6G: AI Empowered Wireless Networks. <i>IEEE Communications Magazine</i> , 2019 , 57, 84-90	9.1	580
91	Augmented-reality-driven medical simulation platform for percutaneous nephrolithotomy with cybersecurity awareness. <i>International Journal of Distributed Sensor Networks</i> , 2019 , 15, 155014771984017	1.7	4
90	A Visualization-Based Analysis on Classifying Android Malware. <i>Lecture Notes in Computer Science</i> , 2019 , 304-319	0.9	1
89	Data-Driven Android Malware Intelligence: A Survey. <i>Lecture Notes in Computer Science</i> , 2019 , 183-202	0.9	6

88	Unsupervised Insider Detection Through Neural Feature Learning and Model Optimisation. <i>Lecture Notes in Computer Science</i> , 2019 , 18-36	0.9	4
87	Insider Threat Identification Using the Simultaneous Neural Learning of Multi-Source Logs. <i>IEEE Access</i> , 2019 , 7, 183162-183176	3.5	11
86	DeepBalance: Deep-Learning and Fuzzy Oversampling for Vulnerability Detection. <i>IEEE Transactions on Fuzzy Systems</i> , 2019 , 1-1	8.3	26
85	Data-Driven Cybersecurity Incident Prediction: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 1744-1772	37.1	123
84	Video denoising for security and privacy in fog computing. <i>Concurrency Computation Practice and Experience</i> , 2019 , 31, e4763	1.4	0
83	Noise-Resistant Statistical Traffic Classification. <i>IEEE Transactions on Big Data</i> , 2019 , 5, 454-466	3.2	7
82	. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2019 , 1-1	3.9	3
81	Big network traffic data visualization. <i>Multimedia Tools and Applications</i> , 2018 , 77, 11459-11487	2.5	3
80	Detecting and Preventing Cyber Insider Threats: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2018 , 20, 1397-1417	37.1	162
79	Comprehensive analysis of network traffic data. <i>Concurrency Computation Practice and Experience</i> , 2018 , 30, e4181	1.4	5
78	Distributed Detection of Zero-Day Network Traffic Flows. <i>Communications in Computer and Information Science</i> , 2018 , 173-191	0.3	
77	JFCGuard: Detecting juice filming charging attack via processor usage analysis on smartphones. <i>Computers and Security</i> , 2018 , 76, 252-264	4.9	17
76	Anomaly-Based Insider Threat Detection Using Deep Autoencoders 2018 ,		14
75	Deep-learnt features for Twitter spam detection 2018 ,		5
74	A Data-driven Attack against Support Vectors of SVM 2018 ,		3
73	A Quantum Secret Sharing Scheme Using Orbital Angular Momentum onto Multiple Spin States Based on Fibonacci Compression Encoding. <i>Communications in Theoretical Physics</i> , 2018 , 70, 384	2.4	3
72	Exploring Feature Coupling and Model Coupling for Image Source Identification. <i>IEEE Transactions on Information Forensics and Security</i> , 2018 , 13, 3108-3121	8	7
71	Cross-Project Transfer Representation Learning for Vulnerable Function Discovery. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3289-3297	11.9	68

70	Investigating the deceptive information in Twitter spam. <i>Future Generation Computer Systems</i> , 2017 , 72, 319-326	7.5	26
69	Twitter spam detection based on deep learning 2017 ,		57
68	Fast and simple high-capacity quantum cryptography with error detection. <i>Scientific Reports</i> , 2017 , 7, 46302	4.9	3
67	. <i>IEEE Access</i> , 2017 , 5, 11142-11154	3.5	20
66	Addressing the class imbalance problem in Twitter spam detection using ensemble learning. <i>Computers and Security</i> , 2017 , 69, 35-49	4.9	48
65	Noisy Smoothing Image Source Identification. <i>Lecture Notes in Computer Science</i> , 2017 , 135-147	0.9	1
64	Detecting spamming activities in twitter based on deep-learning technique. <i>Concurrency Computation Practice and Experience</i> , 2017 , 29, e4209	1.4	14
63	Statistical Features-Based Real-Time Detection of Drifted Twitter Spam. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 914-925	8	64
62	A Survey on Mobile Edge Computing: The Communication Perspective. <i>IEEE Communications Surveys and Tutorials</i> , 2017 , 19, 2322-2358	37.1	2029
61	Fuzzy-Based Information Decomposition for Incomplete and Imbalanced Data Learning. <i>IEEE Transactions on Fuzzy Systems</i> , 2017 , 25, 1476-1490	8.3	45
60	Visualization of big data security: a case study on the KDD99 cup data set. <i>Digital Communications and Networks</i> , 2017 , 3, 250-259	5.9	14
59	Recent Advances in Security and Privacy for Wireless Sensor Networks 2016. <i>Journal of Sensors</i> , 2017 , 2017, 1-3	2	2
58	Hybrid threshold adaptable quantum secret sharing scheme with reverse Huffman-Fibonacci-tree coding. <i>Scientific Reports</i> , 2016 , 6, 31350	4.9	13
57	Statistical Detection of Online Drifting Twitter Spam 2016 ,		17
56	. <i>IEEE Transactions on Computational Social Systems</i> , 2016 , 3, 42-42	4.5	0
55	Spammers Are Becoming "Smarter" on Twitter. <i>IT Professional</i> , 2016 , 18, 66-70	1.9	18
54	Traffic Identification in Big Internet Data 2016 , 129-156		3
53	Fuzzy-Based Feature and Instance Recovery. <i>Lecture Notes in Computer Science</i> , 2016 , 605-615	0.9	4

52	Comprehensive Analysis of Network Traffic Data 2016 ,		6
51	Dynamic Computation Offloading for Mobile-Edge Computing With Energy Harvesting Devices. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 3590-3605	14.2	886
50	. <i>IEEE Transactions on Information Forensics and Security</i> , 2015 , 10, 2692-2704	8	24
49	6 million spam tweets: A large ground truth for timely Twitter spam detection 2015 ,		56
48	. <i>IEEE/ACM Transactions on Networking</i> , 2015 , 23, 1257-1270	3.8	216
47	Recent Advances in Security and Privacy for Wireless Sensor Networks. <i>Journal of Sensors</i> , 2015 , 2015, 1-2	2	2
46	Asymmetric self-learning for tackling Twitter Spam Drift 2015 ,		15
45	Enhanced Twitter Sentiment Analysis by Using Feature Selection and Combination 2015 ,		10
44	A Performance Evaluation of Machine Learning-Based Streaming Spam Tweets Detection. <i>IEEE Transactions on Computational Social Systems</i> , 2015 , 2, 65-76	4.5	66
43	A noisy-smoothing relevance feedback method for content-based medical image retrieval. <i>Multimedia Tools and Applications</i> , 2014 , 73, 1963-1981	2.5	6
42	Internet traffic clustering with side information. <i>Journal of Computer and System Sciences</i> , 2014 , 80, 1021-1036	23	
41	Internet Traffic Classification Using Constrained Clustering. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 2932-2943	3.7	67
40	Modeling and Analysis on the Propagation Dynamics of Modern Email Malware. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2014 , 11, 361-374	3.9	43
39	The maximum imputation framework for neighborhood-based collaborative filtering. <i>Social Network Analysis and Mining</i> , 2014 , 4, 1	2.2	1
38	Medical image retrieval based on unclean image bags. <i>Multimedia Tools and Applications</i> , 2014 , 72, 2977-2999	3	
37	On Addressing the Imbalance Problem: A Correlated KNN Approach for Network Traffic Classification. <i>Lecture Notes in Computer Science</i> , 2014 , 138-151	0.9	4
36	Modeling Propagation Dynamics of Social Network Worms. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2013 , 24, 1633-1643	3.7	72
35	Traffic Identification in Semi-known Network Environment 2013 ,		3

34	Internet Traffic Classification by Aggregating Correlated Naive Bayes Predictions. <i>IEEE Transactions on Information Forensics and Security</i> , 2013 , 8, 5-15	8	101
33	Unsupervised traffic classification using flow statistical properties and IP packet payload. <i>Journal of Computer and System Sciences</i> , 2013 , 79, 573-585	1	48
32	An Effective Network Traffic Classification Method with Unknown Flow Detection. <i>IEEE Transactions on Network and Service Management</i> , 2013 , 10, 133-147	4.8	74
31	Robust image retrieval with hidden classes. <i>Computer Vision and Image Understanding</i> , 2013 , 117, 670-679	4.3	3
30	Lazy collaborative filtering for data sets with missing values. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 1822-34	10.2	52
29	Robust network traffic identification with unknown applications 2013 ,		11
28	AdaM 2013 ,		5
27	Network Traffic Classification Using Correlation Information. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2013 , 24, 104-117	3.7	191
26	Network traffic clustering using Random Forest proximities 2013 ,		10
25	Zero-Day Traffic Identification. <i>Lecture Notes in Computer Science</i> , 2013 , 213-227	0.9	4
24	The efficient imputation method for neighborhood-based collaborative filtering 2012 ,		19
23	Semi-supervised and Compound Classification of Network Traffic 2012 ,		6
22	Classification of Correlated Internet Traffic Flows 2012 ,		2
21	Internet traffic clustering with constraints 2012 ,		6
20	QDFA: Query-Dependent Feature Aggregation for Medical Image Retrieval. <i>IEICE Transactions on Information and Systems</i> , 2012 , E95-D, 275-279	0.6	1
19	A New Re-Ranking Method Using Enhanced Pseudo-Relevance Feedback for Content-Based Medical Image Retrieval. <i>IEICE Transactions on Information and Systems</i> , 2012 , E95-D, 694-698	0.6	2
18	Semi-supervised and compound classification of network traffic. <i>International Journal of Security and Networks</i> , 2012 , 7, 252	0.5	4
17	Secure Image Retrieval Based on Visual Content and Watermarking Protocol. <i>Computer Journal</i> , 2011 , 54, 1661-1674	1.3	8

16	A novel semi-supervised approach for network traffic clustering 2011 ,		25
15	Medical Image Retrieval with Query-Dependent Feature Fusion Based on One-Class SVM 2010 ,		10
14	Real-time gait classification based on fuzzy associative memory. <i>International Journal of Modelling, Identification and Control</i> , 2010 , 10, 263	0.6	1
13	Properties of series feature aggregation schemes. <i>World Review of Science, Technology and Sustainable Development</i> , 2010 , 7, 100	1	1
12	Series feature aggregation for content-based image retrieval. <i>Computers and Electrical Engineering</i> , 2010 , 36, 691-701	4.3	13
11	Effective watermarking scheme in the encrypted domain for buyer-seller watermarking protocol. <i>Information Sciences</i> , 2010 , 180, 4672-4684	7.7	21
10	Image retrieval based on bag of images 2009 ,		3
9	Local aggregation function learning based on support vector machines. <i>Signal Processing</i> , 2009 , 89, 2291-2295	12	
8	Ranking Method for Optimizing Precision/Recall of Content-Based Image Retrieval 2009 ,		1
7	Content based image retrieval using unclean positive examples. <i>IEEE Transactions on Image Processing</i> , 2009 , 18, 2370-5	8.7	24
6	A Watermarking Scheme in the Encrypted Domain for Watermarking Protocol. <i>Lecture Notes in Computer Science</i> , 2008 , 442-456	0.9	
5	Watermarking protocol of secure verification. <i>Journal of Electronic Imaging</i> , 2007 , 16, 043002	0.7	3
4	A new watermarking protocol against conspiracy. <i>Wuhan University Journal of Natural Sciences</i> , 2006 , 11, 1671-1674	0.4	
3	Electronic payment scheme to prevent the treachery. <i>Wuhan University Journal of Natural Sciences</i> , 2006 , 11, 1745-1748	0.4	
2	Secure buyer-seller watermarking protocol. <i>IEE Proceedings - Information Security</i> , 2006 , 153, 15		39
1	MPEG-7 Visual Descriptors and Discriminant Analysis	241-262	