## Shouhuai Xu

List of Publications by Year in descending order

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<u> Сноннилі Хи</u>

#	Article	IF	CITATIONS
1	Statistical modeling of computer malware propagation dynamics in cyberspace. Journal of Applied Statistics, 2022, 49, 858-883.	0.6	1
2	VulDeeLocator: A Deep Learning-Based Fine-Grained Vulnerability Detector. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2821-2837.	3.7	60
3	SySeVR: A Framework for Using Deep Learning to Detect Software Vulnerabilities. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2244-2258.	3.7	165
4	SAND: semi-automated adaptive network defense via programmable rule generation and deployment. Science China Information Sciences, 2022, 65, 1.	2.7	1
5	Blockchain-based automated and robust cyber security management. Journal of Parallel and Distributed Computing, 2022, 163, 62-82.	2.7	8
6	State of Science in Alarm System Safety: Implications for Researchers, Vendors, and Clinical Leaders. Biomedical Instrumentation and Technology, 2022, 56, 19-28.	0.2	2
7	Social engineering attacks and defenses in the physical world vs. cyberspace: A contrast study. , 2022, , 3-41.		4
8	RoPGen. , 2022, , .		8
9	A Framework for Enhancing Deep Neural Networks Against Adversarial Malware. IEEE Transactions on Network Science and Engineering, 2021, 8, 736-750.	4.1	29
10	A Framework for Predicting Data Breach Risk: Leveraging Dependence to Cope With Sparsity. IEEE Transactions on Information Forensics and Security, 2021, 16, 2186-2201.	4.5	18
11	Seeking Foundations for the Science of Cyber Security. Information Systems Frontiers, 2021, 23, 263.	4.1	7
12	Preventive and Reactive Cyber Defense Dynamics With Ergodic Time-Dependent Parameters is Globally Attractive. IEEE Transactions on Network Science and Engineering, 2021, 8, 2517-2532.	4.1	3
13	ExHPD: Exploiting Human, Physical, and Driving Behaviors to Detect Vehicle Cyber Attacks. IEEE Internet of Things Journal, 2021, 8, 14355-14371.	5.5	3
14	A Survey on Ethereum Systems Security. ACM Computing Surveys, 2021, 53, 1-43.	16.1	213
15	SARR: A Cybersecurity Metrics and Quantification Framework (Keynote). Lecture Notes in Computer Science, 2021, , 3-17.	1.0	7
16	Can We Leverage Predictive Uncertainty to Detect Dataset Shift and Adversarial Examples in Android Malware Detection?. , 2021, , .		4
17	Cyber-guided Deep Neural Network for Malicious Repository Detection in GitHub. , 2020, , .		7
18	Human Cognition Through the Lens of Social Engineering Cyberattacks. Frontiers in Psychology, 2020, 11, 1755.	1.1	32

#	Article	IF	CITATIONS
19	Data-Driven Characterization and Detection of COVID-19 Themed Malicious Websites. , 2020, , .		1
20	Characterizing the Landscape of COVID-19 Themed Cyberattacks and Defenses. , 2020, , .		3
21	Relationships between Driver Errors and Delay Discounting in a Simulated Driving Task. Perspectives on Behavior Science, 2020, 43, 487-500.	1.1	1
22	The Cybersecurity Dynamics Way of Thinking and Landscape. , 2020, , .		15
23	APIN: Automatic Attack Path Identification in Computer Networks. , 2020, , .		1
24	A deep learning framework for predicting cyber attacks rates. Eurasip Journal on Information Security, 2019, 2019, .	2.4	38
25	Node diversification in complex networks by decentralized colouring. Journal of Complex Networks, 2019, 7, 554-563.	1.1	5
26	Unified Preventive and Reactive Cyber Defense Dynamics Is Still Globally Convergent. IEEE/ACM Transactions on Networking, 2019, 27, 1098-1111.	2.6	20
27	Cybersecurity Dynamics: A Foundation for the Science of Cybersecurity. Advances in Information Security, 2019, , 1-31.	0.9	23
28	Metrics Towards Measuring Cyber Agility. IEEE Transactions on Information Forensics and Security, 2019, 14, 3217-3232.	4.5	29
29	STRAM. ACM Computing Surveys, 2019, 51, 1-47.	16.1	55
30	A Case Study on using Deep Learning for Network Intrusion Detection. , 2019, , .		21
31	Analyzing Root Causes of Intrusion Detection False-Negatives: Methodology and Case Study. , 2019, , .		3
32	μVulDeePecker: A Deep Learning-Based System for Multiclass Vulnerability Detection. IEEE Transactions on Dependable and Secure Computing, 2019, , 1-1.	3.7	65
33	Election with Bribe-Effect Uncertainty: A Dichotomy Result. , 2019, , .		3
34	Architectural Protection of Application Privacy against Software and Physical Attacks in Untrusted Cloud Environment. IEEE Transactions on Cloud Computing, 2018, 6, 478-491.	3.1	9
35	Special issue on social network security and privacy. Concurrency Computation Practice and Experience, 2018, 30, e4414.	1.4	1
36	Modeling multivariate cybersecurity risks. Journal of Applied Statistics, 2018, 45, 2718-2740.	0.6	36

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37	TNGuard: Securing IoT Oriented Tenant Networks Based on SDN. IEEE Internet of Things Journal, 2018, 5, 1411-1423.	5.5	5
38	Statistical Estimation of Malware Detection Metrics in the Absence of Ground Truth. IEEE Transactions on Information Forensics and Security, 2018, 13, 2965-2980.	4.5	23
39	Quantifying the security effectiveness of firewalls and DMZs. , 2018, , .		18
40	RollSec: Automatically Secure Software States Against General Rollback. International Journal of Parallel Programming, 2018, 46, 788-805.	1.1	1
41	Multi-context features for detecting malicious programs. Journal of Computer Virology and Hacking Techniques, 2018, 14, 181-193.	1.6	6
42	Preventive and Reactive Cyber Defense Dynamics Is Globally Stable. IEEE Transactions on Network Science and Engineering, 2018, 5, 156-170.	4.1	42
43	ICSD., 2018, , .		11
44	A Framework for Characterizing the Evolution of Cyber Attacker-Victim Relation Graphs. , 2018, , .		3
45	Quantifying the security effectiveness of network diversity. , 2018, , .		14
46	DroidEye: Fortifying Security of Learning-Based Classifier Against Adversarial Android Malware Attacks. , 2018, , .		19
47	Measuring Relative Accuracy of Malware Detectors in the Absence of Ground Truth. , 2018, , .		7
48	Modeling and Predicting Cyber Hacking Breaches. IEEE Transactions on Information Forensics and Security, 2018, 13, 2856-2871.	4.5	79
49	Modeling and predicting extreme cyber attack rates via marked point processes. Journal of Applied Statistics, 2017, 44, 2534-2563.	0.6	40
50	Optimizing interconnections to maximize the spectral radius of interdependent networks. Physical Review E, 2017, 95, 032308.	0.8	7
51	Robustness of non-interdependent and interdependent networks against dependent and adaptive attacks. Physica A: Statistical Mechanics and Its Applications, 2017, 482, 713-727.	1.2	8
52	A Survey on Systems Security Metrics. ACM Computing Surveys, 2017, 49, 1-35.	16.1	171
53	Multiple cyber attacks against a target with observation errors and dependent outcomes: Characterization and optimization. Reliability Engineering and System Safety, 2017, 159, 119-133.	5.1	18
54	A Vine Copula Model for Predicting the Effectiveness of Cyber Defense Early-Warning. Technometrics, 2017, 59, 508-520.	1.3	40

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55	A dataset generator for next generation system call host intrusion detection systems. , 2017, , .		9
56	A control flow graph-based signature for packer identification. , 2017, , .		4
57	ON THE QUASI-STATIONARY DISTRIBUTION OF SIS MODELS. Probability in the Engineering and Informational Sciences, 2016, 30, 622-639.	0.6	1
58	Metrics and measurement of trustworthy systems. , 2016, , .		23
59	Extracting attack narratives from traffic datasets. , 2016, , .		10
60	Spatiotemporal Patterns and Predictability of Cyberattacks. PLoS ONE, 2015, 10, e0124472.	1.1	37
61	Active cyber defense dynamics exhibiting rich phenomena. , 2015, , .		24
62	A Stochastic Model of Active Cyber Defense Dynamics. Internet Mathematics, 2015, 11, 23-61.	0.7	46
63	A Characterization of Cybersecurity Posture from Network Telescope Data. Lecture Notes in Computer Science, 2015, , 105-126.	1.0	10
64	Cyber Epidemic Models with Dependences. Internet Mathematics, 2015, 11, 62-92.	0.7	40
65	Predicting Cyber Attack Rates With Extreme Values. IEEE Transactions on Information Forensics and Security, 2015, 10, 1666-1677.	4.5	77
66	Verifiable Delegated Set Intersection Operations on Outsourced Encrypted Data. , 2015, , .		32
67	A new approach to modeling and analyzing security of networked systems. , 2014, , .		16
68	Adaptive Epidemic Dynamics in Networks. ACM Transactions on Autonomous and Adaptive Systems, 2014, 8, 1-19.	0.4	70
69	An evasion and counter-evasion study in malicious websites detection. , 2014, , .		30
70	Instructions-Based Detection of Sophisticated Obfuscation and Packing. , 2014, , .		9
71	Cybersecurity dynamics. , 2014, , .		36
72	Programmable decoder and shadow threads: Tolerate remote code injection exploits with diversified redundancy. , 2014, , .		0

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73	Emergent behavior in cybersecurity. , 2014, , .		17
74	A roadmap for privacy-enhanced secure data provenance. Journal of Intelligent Information Systems, 2014, 43, 481-501.	2.8	29
75	Programmable decoder and shadow threads: Tolerate remote code injection exploits with diversified redundancy. , 2014, , .		0
76	Characterizing the power of moving target defense via cyber epidemic dynamics. , 2014, , .		38
77	Characterizing Honeypot-Captured Cyber Attacks: Statistical Framework and Case Study. IEEE Transactions on Information Forensics and Security, 2013, 8, 1775-1789.	4.5	91
78	Cross-layer detection of malicious websites. , 2013, , .		59
79	Optimizing Active Cyber Defense. Lecture Notes in Computer Science, 2013, , 206-225.	1.0	28
80	Push- and pull-based epidemic spreading in networks. ACM Transactions on Autonomous and Adaptive Systems, 2012, 7, 1-26.	0.4	53
81	Information consensus for multi-agent systems via nonlinear protocols. , 2012, , .		0
82	An Extended Stochastic Model for Quantitative Security Analysis of Networked Systems. Internet Mathematics, 2012, 8, 288-320.	0.7	31
83	Enhancing Data Trustworthiness via Assured Digital Signing. IEEE Transactions on Dependable and Secure Computing, 2012, 9, 838-851.	3.7	15
84	A Stochastic Model of Multivirus Dynamics. IEEE Transactions on Dependable and Secure Computing, 2012, 9, 30-45.	3.7	77
85	Performance Comparison and Feedback Controller Design of Network Controlled Systems with Continuous Loss of States. , 2011, , .		0
86	Exploiting Trust-Based Social Networks for Distributed Protection of Sensitive Data. IEEE Transactions on Information Forensics and Security, 2011, 6, 39-52.	4.5	18
87	A Stochastic Model for Quantitative Security Analyses of Networked Systems. IEEE Transactions on Dependable and Secure Computing, 2011, 8, 28-43.	3.7	36
88	Non-interactive multisignatures in the plain public-key model with efficient verification. Information Processing Letters, 2010, 111, 82-89.	0.4	8
89	Global stabilization over the network with continuous loss of states. , 2010, , .		0
90	A Framework for Understanding Botnets. , 2009, , .		28

A Framework for Understanding Botnets. , 2009, , . 90

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91	Leak-free mediated group signatures1. Journal of Computer Security, 2009, 17, 489-514.	0.5	5
92	A probabilistic characterization of a fault-tolerant gossiping algorithm. Journal of Systems Science and Complexity, 2009, 22, 88-108.	1.6	1
93	Analyzing DNS activities of bot processes. , 2009, , .		7
94	A Characterization of the problem of secure provenance management. , 2009, , .		4
95	A First Step towards Characterizing Stealthy Botnets. , 2009, , .		5
96	(How) Can We Manage the Trustworthiness of Security Infrastructures and Services?. , 2008, , .		2
97	Protecting Cryptographic Keys from Memory Disclosure Attacks. , 2007, , .		39
98	Towards Quantifying the (In)Security of Networked Systems. International Conference on Advanced Networking and Applications, 2007, , .	0.0	12
99	On the security of group communication schemes. Journal of Computer Security, 2007, 15, 129-169.	0.5	17
100	GKMPAN: An Efficient Group Rekeying Scheme for Secure Multicast in Ad-Hoc Networks*. Journal of Computer Security, 2006, 14, 301-325.	0.5	26
101	LHAP: A lightweight network access control protocol for ad hoc networks. Ad Hoc Networks, 2006, 4, 567-585.	3.4	35
102	Towards Understanding the (In)security of Networked Systems under Towards Understanding the (In)security of Networked Systems under Topology-Directed Stealthy Attacks. , 2006, , .		0
103	Enhancing anonymity via market competition. , 2004, , .		0
104	On the security of three-party cryptographic protocols. Operating Systems Review (ACM), 1998, 32, 7-20.	1.5	1
105	On the properties of cryptographic protocols and the weaknesses of the BAN-like logics. Operating Systems Review (ACM), 1997, 31, 12-23.	1.5	2
106	Establishing pairwise keys for secure communication in ad hoc networks: a probabilistic approach. , 0,		114