Hossain Shahriar

List of Publications by Year
in descending order

		1163117	839539
164 papers	1,259 citations	8 h-index	18 g-index
170 all docs	170 docs citations	170 times ranked	755 citing authors

#	Article	IF	Citations
1	Mitigating program security vulnerabilities. ACM Computing Surveys, 2012, 44, 1-46.	23.0	76
2	Trustworthiness testing of phishing websites: A behavior model-based approach. Future Generation Computer Systems, 2012, 28, 1258-1271.	7.5	48
3	Wi-COVID: A COVID-19 symptom detection and patient monitoring framework using WiFi. Smart Health, 2021, 19, 100147.	3.2	47
4	MUSIC: Mutation-based SQL Injection Vulnerability Checking. , 2008, , .		46
5	MUTEC: Mutation-based testing of Cross Site Scripting. , 2009, , .		41
6	Client-Side Detection of Cross-Site Request Forgery Attacks. , 2010, , .		37
7	Improving the Prediction Accuracy of Decision Tree Mining with Data Preprocessing. , 2017, , .		32
8	Ransomware Classification and Detection With Machine Learning Algorithms. , 2022, , .		30
9	Information-Theoretic Detection of SQL Injection Attacks. , 2012, , .		29
10	Web Application Firewall: Network Security Models and Configuration. , 2018, , .		28
11	S2XS2: A Server Side Approach to Automatically Detect XSS Attacks. , 2011, , .		25
12	Taxonomy and classification of automatic monitoring of program security vulnerability exploitations. Journal of Systems and Software, 2011, 84, 250-269.	4.5	24
13	Testing of Memory Leak in Android Applications. , 2014, , .		23
14	Effective detection of vulnerable and malicious browser extensions. Computers and Security, 2014, 47, 66-84.	6.0	23
15	Mobile Phishing Attacks and Mitigation Techniques. Journal of Information Security, 2015, 06, 206-212.	0.8	23
16	Malware Detection and Prevention using Artificial Intelligence Techniques. , 2021, , .		22
17	Mutation-Based Testing of Buffer Overflow Vulnerabilities. , 2008, , .		21
18	Blockchain-Based Interoperable Electronic Health Record Sharing Framework. , 2019, , .		21

#	Article	IF	Citations
19	Injecting Comments to Detect JavaScript Code Injection Attacks. , 2011, , .		18
20	Towards Blockchain-Based Secure Data Management for Remote Patient Monitoring. , 2021, , .		18
21	PhishTester: Automatic Testing of Phishing Attacks. , 2010, , .		16
22	IoT Malware Analysis. , 2019, , .		16
23	Droid-NNet: Deep Learning Neural Network for Android Malware Detection. , 2019, , .		16
24	TL-NID: Deep Neural Network with Transfer Learning for Network Intrusion Detection. , 2020, , .		16
25	Security requirement prototyping with hyperledger composer for drug supply chain. , 2019, , .		15
26	Classification of Static Analysis-Based Buffer Overflow Detectors. , 2010, , .		14
27	ProClick. , 2013, , .		14
28	Blockchain Development Platform Comparison. , 2019, , .		14
29	Comparative study of a mathematical epidemic model, statistical modeling, and deep learning for COVID-19 forecasting and management. Socio-Economic Planning Sciences, 2022, 80, 101249.	5.0	14
30	Information Theoretic Anomaly Detection Framework for Web Application. , 2016, , .		13
31	Mutation-Based Testing of Format String Bugs. , 2008, , .		12
32	Automatic Testing of Program Security Vulnerabilities. , 2009, , .		12
33	Server Side Detection of Content Sniffing Attacks. , 2011, , .		11
34	Buffer overflow patching for C and C++ programs. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2013, 13, 8-19.	0.9	11
35	Android malware detection using permission analysis. , 2017, , .		11
36	Compliance Checking of Open Source EHR Applications for HIPAA and ONC Security and Privacy Requirements. , 2019, , .		11

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37	Smart Contract-Based Secured Business-to-Consumer Supply Chain Systems. , 2019, , .		11
38	Malicious URL Detection Using Supervised Machine Learning Techniques. , 2020, , .		11
39	Software Engineering Process and Methodology in Blockchain-Oriented Software Development: A Systematic Study. , 2022, , .		11
40	Data masking techniques for NoSQL database security: A systematic review. , 2017, , .		10
41	An Architecture for Blockchain-Enabled Collaborative Signature-based Intrusion Detection System. , 2019, , .		10
42	Security and Privacy Analysis of Wearable Health Device. , 2020, , .		10
43	Health Internet Technology for Chronic Conditions: Review of Diabetes Management Apps. JMIR Diabetes, 2021, 6, e17431.	1.9	10
44	Information Source-Based Classification of Automatic Phishing Website Detectors. , 2011, , .		9
45	A Survey of Android Malware Characterisitics and Mitigation Techniques. , 2014, , .		9
46	Comparing MOOC-based platforms: Reflection on pedagogical support, framework and learning analytics. , 2015, , .		9
47	A Signature-Based Intrusion Detection System for Web Applications based on Genetic Algorithm. , 2016, , .		9
48	Web service injection attack detection. , 2017, , .		9
49	Benchmark Requirements for Assessing Software Security Vulnerability Testing Tools. , 2018, , .		9
50	Chained of Things: A Secure and Dependable Design of Autonomous Vehicle Services. , 2018, , .		9
51	Improving Prediction Accuracy for Logistic Regression on Imbalanced Datasets. , 2019, , .		9
52	r-LSTM: Time Series Forecasting for COVID-19 Confirmed Cases with LSTMbased Framework. , 2020, , .		9
53	OCL Fault Injection-Based Detection of LDAP Query Injection Vulnerabilities. , 2016, , .		8
54	Cyber Fraud Prediction with Supervised Machine Learning Techniques. , 2020, , .		8

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55	Ride-Hailing for Autonomous Vehicles: Hyperledger Fabric-Based Secure and Decentralize Blockchain Platform. , 2021, , .		8
56	A Model-Based Detection of Vulnerable and Malicious Browser Extensions. , 2013, , .		7
57	Risk assessment of code injection vulnerabilities using fuzzy logic-based system. , 2014, , .		7
58	Learning database security with hands-on mobile labs. , 2017, , .		7
59	Process Mining Algorithms for Clinical Workflow Analysis. , 2018, , .		7
60	A Fuzzy Logic-Based Buffer Overflow Vulnerability Auditor. , 2011, , .		6
61	Authentic learning in network and security with portable labs. , 2014, , .		6
62	Classification of Clickjacking Attacks and Detection Techniques. Information Security Journal, 2014, 23, 137-147.	1.9	6
63	Classification of Lightweight Directory Access Protocol query injection attacks and mitigation techniques. , 2015, , .		6
64	Mutation Testing of Event Processing Queries. , 2012, , .		5
65	Rule-Based Source Level Patching of Buffer Overflow Vulnerabilities. , 2013, , .		5
66	Content Provider Leakage Vulnerability Detection in Android Applications. , 2014, , .		5
67	Object injection vulnerability discovery based on latent semantic indexing. , 2016, , .		5
68	Towards an Attack Signature Generation Framework for Intrusion Detection Systems. , 2017, , .		5
69	Hands-on File Inclusion Vulnerablity and Proactive Control for Secure Software Development. , 2019, , .		5
70	Mobile anti-phishing: Approaches and challenges. Information Security Journal, 2019, 28, 178-193.	1.9	5
71	Mobile Sensor-Based Fall Detection Framework. , 2020, , .		5
72	Ensemble-based Efficient Anomaly Detection for Smart Building Control Systems. , 2021, , .		5

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73	Denial of Service (DoS) Attack Detection: Performance Comparison of Supervised Machine Learning Algorithms. , 2020, , .		5
74	Development of a Noninvasive Blood Glucose Monitoring System Prototype: Pilot Study. JMIR Formative Research, 2022, 6, e38664.	1.4	5
75	ASSESSING TEST SUITES FOR BUFFER OVERFLOW VULNERABILITIES. International Journal of Software Engineering and Knowledge Engineering, 2010, 20, 73-101.	0.8	4
76	Design and development of Anti-XSS proxy. , 2013, , .		4
77	Server-side code injection attack detection based on Kullback-Leibler distance. International Journal of Internet Technology and Secured Transactions, 2014, 5, 240.	0.4	4
78	An Iris-Based Authentication Framework to Prevent Presentation Attacks. , 2017, , .		4
79	Secure Mobile IPC Software Development with Vulnerability Detectors in Android Studio. , 2018, , .		4
80	Protecting Data in Android External Data Storage. , 2019, , .		4
81	Supervised and Unsupervised-Based Analytics of Intensive Care Unit Data. , 2019, , .		4
82	Epileptic Seizure Detection for Imbalanced Datasets Using an Integrated Machine Learning Approach. , 2020, 2020, 5416-5419.		4
83	Mobile Application Security Using Static and Dynamic Analysis. Studies in Computational Intelligence, 2021, , 443-459.	0.9	4
84	Detecting Network Attacks using Federated Learning for IoT Devices. , 2021, , .		4
85	Monitoring Buffer Overflow Attacks. International Journal of Secure Software Engineering, 2010, 1, 18-40.	0.4	3
86	Detection of repackaged Android Malware. , 2014, , .		3
87	Static Analysis of HIPPA Security Requirements in Electronic Health Record Applications. , 2018, , .		3
88	DroidPatrol: A Static Analysis Plugin For Secure Mobile Software Development. , 2019, , .		3
89	An Empirical Study of Vulnerabilities in Robotics. , 2021, , .		3
90	An Investigation on Non-Invasive Brain-Computer Interfaces: Emotiv Epoc+ Neuroheadset and Its Effectiveness. , 2021, , .		3

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91	Data Analysis Methods for Health Monitoring Sensors: A survey. , 2021, , .		3
92	Information Theoretic XSS Attack Detection in Web Applications. International Journal of Secure Software Engineering, 2014, 5, 1-15.	0.4	3
93	Client-Side Detection of SQL Injection Attack. Lecture Notes in Computer Science, 2013, , 512-517.	1.3	3
94	Security and Privacy Analysis of Mhealth Application: A Case Study. , 2020, , .		3
95	Network Intrusion Detection for TCP/IP Packets with Machine Learning Techniques. Studies in Computational Intelligence, 2021, , 231-247.	0.9	3
96	The Adoption, Issues, and Challenges of Wearable Healthcare Technology for the Elderly. , 2020, , .		3
97	Classification of Buffer Overflow Vulnerability Monitors. , 2010, , .		2
98	Mobile app permissions awareness. , 2015, , .		2
99	Labware for Secure Mobile Software Development (SMSD) Education. , 2017, , .		2
100	Design and Development of Smart TV Protector. , 2018, , .		2
101	Analysis of Sampling Techniques Towards Epileptic Seizure Detection from Imbalanced Dataset. , 2020, , .		2
102	Actionable Knowledge Extraction Framework for COVID-19. , 2020, , .		2
103	Case Study-based Portable Hands-on Labware for Machine Learning in Cybersecurity. , 2020, , .		2
104	A Hands-On Lab for Macro Malware Detection using Machine Learning on Virtual Machines. , 2020, , .		2
105	Distributed Denial of Service Attack Detection. Advances in Intelligent Systems and Computing, 2021, , 240-241.	0.6	2
106	R-Mon: An mhealth Tool for Real-time Respiratory Monitoring During Pandemics and Self-Isolation. , 2020, , .		2
107	ACIR: An Aspect-Connector for Intrusion Response. Proceedings - IEEE Computer Society's International Computer Software and Applications Conference, 2007, , .	0.0	1
108	Labware for networking protocols and wireless security using Android-enabled mobile devices. , 2014, , .		1

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109	Security concerns and mitigation approaches for MOOC-based applications. , 2015, , .		1
110	Security assessment of clickjacking risks in web applications. , 2015, , .		1
111	Digital Badges to Enhance Skills and Preparation for a Career in Cyber Security. , 2016, , .		1
112	Health Data Analytics. , 2018, , .		1
113	Non-Invasive Wi-Fi Sensors For Smart Healthcare. , 2019, , .		1
114	Resources for healthcare workflow modeling and analysis. , 2019, , .		1
115	Experiential Learning: Case Study-Based Portable Hands-on Regression Labware for Cyber Fraud Prediction. , 2019, , .		1
116	Hands-on Lab on Smart City Vulnerability Exploitation. , 2020, , .		1
117	Learning Environment Containerization of Machine Leaning for Cybersecurity. , 2020, , .		1
118	WTC^2: Impact-Aware Threat Analysis for Water Treatment Centers. , 2020, , .		1
119	A Classification of Web Service Credibility Measures. , 2021, , .		1
120	Presentation Attack Detection Framework. Studies in Computational Intelligence, 2021, , 297-311.	0.9	1
121	Survey of Vulnerabilities and Mitigation Techniques for Mooc-Based Applications. International Journal of Secure Software Engineering, 2016, 7, 1-18.	0.4	1
122	Mitigating distributed denial of service attacks at the application layer. , 2017, , .		1
123	LDAP Vulnerability Detection in Web Applications. International Journal of Secure Software Engineering, 2017, 8, 31-50.	0.4	1
124	Compliance of Electronic Health Record Applications With HIPAA Security and Privacy Requirements. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 199-213.	0.5	1
125	Information Theoretic XSS Attack Detection in Web Applications. , 2018, , 972-987.		1
126	Fuzzy Rule-Based Vulnerability Assessment Framework for Web Applications. , 2018, , 778-797.		1

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127	Compliance of Electronic Health Record Applications With HIPAA Security and Privacy Requirements. , 2019, , 1605-1618.		1
128	Point-of-Sale Device Attacks and Mitigation Approaches for Cyber-Physical Systems. , 2019, , 367-391.		1
129	Towards Secure Password Protection in Portable Applications. Advances in Intelligent Systems and Computing, 2020, , 3-13.	0.6	1
130	Developing a Blockchain-Enabled Collaborative Intrusion Detection System: An Exploratory Study. Advances in Intelligent Systems and Computing, 2020, , 172-183.	0.6	1
131	Framework for Collecting Data from specialized IoT devices - An application to enhance Healthcare Systems. , 2021, , .		1
132	COVID-19 Mortality Prediction Using Machine Learning Techniques. , 2021, , .		1
133	Security vulnerabilities and mitigation techniques of web applications. , 2013, , .		0
134	Towards mutation-based testing of column-oriented database queries. , 2014, , .		0
135	CS++. , 2014, , .		0
136	Dynamic Analysis of Web Objects. , 2014, , .		0
137	Message from the Fast Abstract Chairs. , 2015, , .		0
138	A Novel Approach to Detect Tampered Wireless Network Applications. , 2015, , .		0
139	Anomalous Android Application Detection with Latent Semantic Indexing. , 2016, , .		0
140	Message from COMPSAC 2017 Fast Abstract Track Co-Chairs. , 2017, , .		0
141	Mobile Software Security with Dynamic Analysis. , 2018, , .		0
142	Message from the Fast Abstract Co-chairs. , 2018, , .		0
143	Reduction of Medical Errors in Emergency Medical Care. , 2018, , .		0
144	STPSA 2019 Welcome Message. , 2019, , .		0

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145	A Two-Step Password Authentication System for Alzheimer Patients. , 2020, , .		0
146	Enhancing Proactive Control Mobile and Web Software Security Education with Hands-on Labware. , 2020, , .		0
147	Assessing HIPAA Compliance of Open Source Electronic Health Record Applications. International Journal of Information Security and Privacy, 2021, 15, 181-195.	0.8	0
148	A Taxonomy of XSS Attack Detections in Mobile Environments based on Automation Capabilities. , 2021, , .		0
149	Cybersecurity Risks and Mitigation Techniques During COVID-19. , 2021, , .		0
150	We Did It! So Can You! Creating "No-Textbook" IT Degrees. , 2021, , .		0
151	Fuzzy Logicâ€"Based Application Security Risk Assessment. , 2014, , 49-66.		0
152	Development and Mitigation of Android Malware. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2015, , 51-66.	0.4	0
153	Client-Side Detection of Clickjacking Attacks. International Journal of Information Security and Privacy, 2015, 9, 1-25.	0.8	0
154	Hijacking of Clicks. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2015, , 135-145.	0.4	0
155	Classification of Web-Service-Based Attacks and Mitigation Techniques. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 360-378.	0.5	0
156	Redeveloping Electronic Health Records Course with Open Source Tools and Platforms. , 2019, , .		0
157	Information Assurance and Security Education on Undergraduate Computing Degree Programs. , 2020, , .		0
158	Non-Invasive Monitoring of Human Hygiene using Vibration Sensor and Classifiers. , 2021, , .		0
159	A Statistical Summary Analysis of Window-Based Extracted Features for EEG Signal Classification. , 2021, , .		0
160	Analyzing Security and Privacy Concerns of Contact Tracing Applications. , 2021, , .		0
161	Attacks and Mitigation Techniques for Iris-Based Authentication Systems. , 2020, , .		0
162	Monitoring Buffer Overflow Attacks. , 0, , 130-151.		0

#	ARTICLE	IF	CITATIONS
163	Emotional Analysis of Learning Cybersecurity with Games. , 2021, , .		0
164	How Do Students Feel About Automated Security Static Analysis Exercises?. , 2021, , .		0