Hossain Shahriar

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	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
2	Ransomware Classification and Detection With Machine Learning Algorithms. , 2022, , .		30
3	Development of a Noninvasive Blood Glucose Monitoring System Prototype: Pilot Study. JMIR Formative Research, 2022, 6, e38664.	1.4	5
4	Software Engineering Process and Methodology in Blockchain-Oriented Software Development: A Systematic Study. , 2022, , .		11
5	Wi-COVID: A COVID-19 symptom detection and patient monitoring framework using WiFi. Smart Health, 2021, 19, 100147.	3.2	47
6	Assessing HIPAA Compliance of Open Source Electronic Health Record Applications. International Journal of Information Security and Privacy, 2021, 15, 181-195.	0.8	0
7	An Empirical Study of Vulnerabilities in Robotics. , 2021, , .		3
8	A Taxonomy of XSS Attack Detections in Mobile Environments based on Automation Capabilities. , 2021, , .		0
9	Cybersecurity Risks and Mitigation Techniques During COVID-19. , 2021, , .		0
10	An Investigation on Non-Invasive Brain-Computer Interfaces: Emotiv Epoc+ Neuroheadset and Its Effectiveness. , 2021, , .		3
11	A Classification of Web Service Credibility Measures. , 2021, , .		1
12	Ensemble-based Efficient Anomaly Detection for Smart Building Control Systems. , 2021, , .		5
13	Data Analysis Methods for Health Monitoring Sensors: A survey. , 2021, , .		3
14	Health Internet Technology for Chronic Conditions: Review of Diabetes Management Apps. JMIR Diabetes, 2021, 6, e17431.	1.9	10
15	We Did It! So Can You! Creating "No-Textbook" IT Degrees. , 2021, , .		0
16	Presentation Attack Detection Framework. Studies in Computational Intelligence, 2021, , 297-311.	0.9	1
17	Mobile Application Security Using Static and Dynamic Analysis. Studies in Computational Intelligence, 2021, , 443-459.	0.9	4
18	Network Intrusion Detection for TCP/IP Packets with Machine Learning Techniques. Studies in Computational Intelligence, 2021, , 231-247.	0.9	3

#	Article	IF	Citations
19	Non-Invasive Monitoring of Human Hygiene using Vibration Sensor and Classifiers. , 2021, , .		0
20	Framework for Collecting Data from specialized IoT devices - An application to enhance Healthcare Systems. , 2021, , .		1
21	Towards Blockchain-Based Secure Data Management for Remote Patient Monitoring. , 2021, , .		18
22	COVID-19 Mortality Prediction Using Machine Learning Techniques. , 2021, , .		1
23	A Statistical Summary Analysis of Window-Based Extracted Features for EEG Signal Classification. , 2021, , .		0
24	Analyzing Security and Privacy Concerns of Contact Tracing Applications. , 2021, , .		0
25	Distributed Denial of Service Attack Detection. Advances in Intelligent Systems and Computing, 2021, , 240-241.	0.6	2
26	Emotional Analysis of Learning Cybersecurity with Games. , 2021, , .		0
27	How Do Students Feel About Automated Security Static Analysis Exercises?. , 2021, , .		0
28	Detecting Network Attacks using Federated Learning for IoT Devices. , 2021, , .		4
29	Malware Detection and Prevention using Artificial Intelligence Techniques. , 2021, , .		22
30	Ride-Hailing for Autonomous Vehicles: Hyperledger Fabric-Based Secure and Decentralize Blockchain Platform. , 2021, , .		8
31	Hands-on Lab on Smart City Vulnerability Exploitation. , 2020, , .		1
32	A Two-Step Password Authentication System for Alzheimer Patients. , 2020, , .		0
33	Security and Privacy Analysis of Wearable Health Device. , 2020, , .		10
34	Mobile Sensor-Based Fall Detection Framework. , 2020, , .		5
35	Analysis of Sampling Techniques Towards Epileptic Seizure Detection from Imbalanced Dataset. , 2020, , .		2
36	Learning Environment Containerization of Machine Leaning for Cybersecurity. , 2020, , .		1

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37	Epileptic Seizure Detection for Imbalanced Datasets Using an Integrated Machine Learning Approach. , 2020, 2020, 5416-5419.		4
38	WTC^2: Impact-Aware Threat Analysis for Water Treatment Centers. , 2020, , .		1
39	Enhancing Proactive Control Mobile and Web Software Security Education with Hands-on Labware. , 2020, , .		0
40	Denial of Service (DoS) Attack Detection: Performance Comparison of Supervised Machine Learning Algorithms. , 2020, , .		5
41	Cyber Fraud Prediction with Supervised Machine Learning Techniques. , 2020, , .		8
42	Towards Secure Password Protection in Portable Applications. Advances in Intelligent Systems and Computing, 2020, , 3-13.	0.6	1
43	Developing a Blockchain-Enabled Collaborative Intrusion Detection System: An Exploratory Study. Advances in Intelligent Systems and Computing, 2020, , 172-183.	0.6	1
44	r-LSTM: Time Series Forecasting for COVID-19 Confirmed Cases with LSTMbased Framework. , 2020, , .		9
45	TL-NID: Deep Neural Network with Transfer Learning for Network Intrusion Detection. , 2020, , .		16
46	Security and Privacy Analysis of Mhealth Application: A Case Study. , 2020, , .		3
47	Actionable Knowledge Extraction Framework for COVID-19. , 2020, , .		2
48	Information Assurance and Security Education on Undergraduate Computing Degree Programs. , 2020, , .		0
49	Case Study-based Portable Hands-on Labware for Machine Learning in Cybersecurity. , 2020, , .		2
50	A Hands-On Lab for Macro Malware Detection using Machine Learning on Virtual Machines. , 2020, , .		2
51	Attacks and Mitigation Techniques for Iris-Based Authentication Systems. , 2020, , .		0
52	The Adoption, Issues, and Challenges of Wearable Healthcare Technology for the Elderly. , 2020, , .		3
53	Malicious URL Detection Using Supervised Machine Learning Techniques. , 2020, , .		11
54	R-Mon: An mhealth Tool for Real-time Respiratory Monitoring During Pandemics and Self-Isolation. , 2020, , .		2

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55	Non-Invasive Wi-Fi Sensors For Smart Healthcare. , 2019, , .		1
56	Blockchain Development Platform Comparison. , 2019, , .		14
57	Compliance Checking of Open Source EHR Applications for HIPAA and ONC Security and Privacy Requirements. , 2019, , .		11
58	Blockchain-Based Interoperable Electronic Health Record Sharing Framework. , 2019, , .		21
59	Improving Prediction Accuracy for Logistic Regression on Imbalanced Datasets. , 2019, , .		9
60	IoT Malware Analysis. , 2019, , .		16
61	Hands-on File Inclusion Vulnerablity and Proactive Control for Secure Software Development. , 2019, , .		5
62	Protecting Data in Android External Data Storage. , 2019, , .		4
63	An Architecture for Blockchain-Enabled Collaborative Signature-based Intrusion Detection System. , 2019, , .		10
64	DroidPatrol: A Static Analysis Plugin For Secure Mobile Software Development. , 2019, , .		3
65	STPSA 2019 Welcome Message. , 2019, , .		0
66	Supervised and Unsupervised-Based Analytics of Intensive Care Unit Data. , 2019, , .		4
67	Resources for healthcare workflow modeling and analysis. , 2019, , .		1
68	Security requirement prototyping with hyperledger composer for drug supply chain. , 2019, , .		15
69	Droid-NNet: Deep Learning Neural Network for Android Malware Detection. , 2019, , .		16
70	Experiential Learning: Case Study-Based Portable Hands-on Regression Labware for Cyber Fraud Prediction. , 2019, , .		1
71	Mobile anti-phishing: Approaches and challenges. Information Security Journal, 2019, 28, 178-193.	1.9	5
72	Smart Contract-Based Secured Business-to-Consumer Supply Chain Systems. , 2019, , .		11

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73	Compliance of Electronic Health Record Applications With HIPAA Security and Privacy Requirements. , 2019, , 1605-1618.		1
74	Point-of-Sale Device Attacks and Mitigation Approaches for Cyber-Physical Systems. , 2019, , 367-391.		1
75	Redeveloping Electronic Health Records Course with Open Source Tools and Platforms. , 2019, , .		0
76	Mobile Software Security with Dynamic Analysis. , 2018, , .		0
77	Message from the Fast Abstract Co-chairs. , 2018, , .		0
78	Design and Development of Smart TV Protector. , 2018, , .		2
79	Reduction of Medical Errors in Emergency Medical Care. , 2018, , .		0
80	Health Data Analytics. , 2018, , .		1
81	Process Mining Algorithms for Clinical Workflow Analysis. , 2018, , .		7
82	Benchmark Requirements for Assessing Software Security Vulnerability Testing Tools. , 2018, , .		9
83	Static Analysis of HIPPA Security Requirements in Electronic Health Record Applications. , 2018, , .		3
84	Web Application Firewall: Network Security Models and Configuration. , 2018, , .		28
85	Secure Mobile IPC Software Development with Vulnerability Detectors in Android Studio. , 2018, , .		4
86	Chained of Things: A Secure and Dependable Design of Autonomous Vehicle Services. , 2018, , .		9
87	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
88	Information Theoretic XSS Attack Detection in Web Applications. , 2018, , 972-987.		1
89	Fuzzy Rule-Based Vulnerability Assessment Framework for Web Applications. , 2018, , 778-797.		1
90	Classification of Web-Service-Based Attacks and Mitigation Techniques. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 360-378.	0.5	0

#	ARTICLE	IF	CITATIONS
91	Android malware detection using permission analysis. , 2017, , .		11
92	An Iris-Based Authentication Framework to Prevent Presentation Attacks. , 2017, , .		4
93	Improving the Prediction Accuracy of Decision Tree Mining with Data Preprocessing. , 2017, , .		32
94	Labware for Secure Mobile Software Development (SMSD) Education. , 2017, , .		2
95	Learning database security with hands-on mobile labs. , 2017, , .		7
96	Data masking techniques for NoSQL database security: A systematic review. , 2017, , .		10
97	Towards an Attack Signature Generation Framework for Intrusion Detection Systems. , 2017, , .		5
98	Message from COMPSAC 2017 Fast Abstract Track Co-Chairs. , 2017, , .		0
99	Web service injection attack detection. , 2017, , .		9
100	Mitigating distributed denial of service attacks at the application layer. , 2017, , .		1
101	LDAP Vulnerability Detection in Web Applications. International Journal of Secure Software Engineering, 2017, 8, 31-50.	0.4	1
102	Information Theoretic Anomaly Detection Framework for Web Application. , 2016, , .		13
103	OCL Fault Injection-Based Detection of LDAP Query Injection Vulnerabilities. , 2016, , .		8
104	Digital Badges to Enhance Skills and Preparation for a Career in Cyber Security. , 2016, , .		1
105	Anomalous Android Application Detection with Latent Semantic Indexing. , 2016, , .		0
106	A Signature-Based Intrusion Detection System for Web Applications based on Genetic Algorithm. , 2016, , .		9
107	Object injection vulnerability discovery based on latent semantic indexing. , 2016, , .		5
108	Survey of Vulnerabilities and Mitigation Techniques for Mooc-Based Applications. International Journal of Secure Software Engineering, 2016, 7, 1-18.	0.4	1

#	Article	IF	Citations
109	Mobile app permissions awareness. , 2015, , .		2
110	Security concerns and mitigation approaches for MOOC-based applications. , 2015, , .		1
111	Message from the Fast Abstract Chairs. , 2015, , .		0
112	A Novel Approach to Detect Tampered Wireless Network Applications. , 2015, , .		0
113	Comparing MOOC-based platforms: Reflection on pedagogical support, framework and learning analytics. , 2015, , .		9
114	Security assessment of clickjacking risks in web applications. , 2015, , .		1
115	Classification of Lightweight Directory Access Protocol query injection attacks and mitigation techniques. , 2015, , .		6
116	Mobile Phishing Attacks and Mitigation Techniques. Journal of Information Security, 2015, 06, 206-212.	0.8	23
117	Development and Mitigation of Android Malware. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2015, , 51-66.	0.4	0
118	Client-Side Detection of Clickjacking Attacks. International Journal of Information Security and Privacy, 2015, 9, 1-25.	0.8	0
119	Hijacking of Clicks. Advances in Digital Crime, Forensics, and Cyber Terrorism, 2015, , 135-145.	0.4	0
120	Towards mutation-based testing of column-oriented database queries. , 2014, , .		0
121	Authentic learning in network and security with portable labs. , 2014, , .		6
122	CS++. , 2014, , .		0
123	Risk assessment of code injection vulnerabilities using fuzzy logic-based system. , 2014, , .		7
124	Labware for networking protocols and wireless security using Android-enabled mobile devices. , 2014, , .		1
125	Dynamic Analysis of Web Objects. , 2014, , .		0
126	Content Provider Leakage Vulnerability Detection in Android Applications. , 2014, , .		5

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127	Detection of repackaged Android Malware. , 2014, , .		3
128	Classification of Clickjacking Attacks and Detection Techniques. Information Security Journal, 2014, 23, 137-147.	1.9	6
129	Testing of Memory Leak in Android Applications. , 2014, , .		23
130	A Survey of Android Malware Characterisitics and Mitigation Techniques. , 2014, , .		9
131	Effective detection of vulnerable and malicious browser extensions. Computers and Security, 2014, 47, 66-84.	6.0	23
132	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
133	Information Theoretic XSS Attack Detection in Web Applications. International Journal of Secure Software Engineering, 2014, 5, 1-15.	0.4	3
134	Fuzzy Logicâ€"Based Application Security Risk Assessment. , 2014, , 49-66.		0
135	ProClick. , 2013, , .		14
136	A Model-Based Detection of Vulnerable and Malicious Browser Extensions. , 2013, , .		7
137	Rule-Based Source Level Patching of Buffer Overflow Vulnerabilities. , 2013, , .		5
138	Security vulnerabilities and mitigation techniques of web applications. , 2013, , .		0
139	Design and development of Anti-XSS proxy. , 2013, , .		4
140	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
141	Client-Side Detection of SQL Injection Attack. Lecture Notes in Computer Science, 2013, , 512-517.	1.3	3
142	Mutation Testing of Event Processing Queries. , 2012, , .		5
143	Information-Theoretic Detection of SQL Injection Attacks. , 2012, , .		29
144	Mitigating program security vulnerabilities. ACM Computing Surveys, 2012, 44, 1-46.	23.0	76

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145	Trustworthiness testing of phishing websites: A behavior model-based approach. Future Generation Computer Systems, 2012, 28, 1258-1271.	7.5	48
146	Injecting Comments to Detect JavaScript Code Injection Attacks. , 2011, , .		18
147	Information Source-Based Classification of Automatic Phishing Website Detectors. , 2011, , .		9
148	Server Side Detection of Content Sniffing Attacks. , 2011, , .		11
149	Taxonomy and classification of automatic monitoring of program security vulnerability exploitations. Journal of Systems and Software, 2011, 84, 250-269.	4.5	24
150	A Fuzzy Logic-Based Buffer Overflow Vulnerability Auditor. , 2011, , .		6
151	S2XS2: A Server Side Approach to Automatically Detect XSS Attacks. , 2011, , .		25
152	Monitoring Buffer Overflow Attacks. International Journal of Secure Software Engineering, 2010, 1, 18-40.	0.4	3
153	ASSESSING TEST SUITES FOR BUFFER OVERFLOW VULNERABILITIES. International Journal of Software Engineering and Knowledge Engineering, 2010, 20, 73-101.	0.8	4
154	Client-Side Detection of Cross-Site Request Forgery Attacks. , 2010, , .		37
155	PhishTester: Automatic Testing of Phishing Attacks. , 2010, , .		16
156	Classification of Static Analysis-Based Buffer Overflow Detectors. , 2010, , .		14
157	Classification of Buffer Overflow Vulnerability Monitors. , 2010, , .		2
158	MUTEC: Mutation-based testing of Cross Site Scripting. , 2009, , .		41
159	Automatic Testing of Program Security Vulnerabilities. , 2009, , .		12
160	MUSIC: Mutation-based SQL Injection Vulnerability Checking. , 2008, , .		46
161	Mutation-Based Testing of Buffer Overflow Vulnerabilities. , 2008, , .		21
162	Mutation-Based Testing of Format String Bugs. , 2008, , .		12

#	Article	IF	Citations
163	ACIR: An Aspect-Connector for Intrusion Response. Proceedings - IEEE Computer Society's International Computer Software and Applications Conference, 2007, , .	0.0	1
164	Monitoring Buffer Overflow Attacks. , 0, , 130-151.		0