

Abdun Naser Mahmood

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

2,866
citations

304743

22
h-index

189892

50
g-index

76
all docs

76
docs citations

76
times ranked

2526
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of network anomaly detection techniques. Journal of Network and Computer Applications, 2016, 60, 19-31.	9.1	926
2	A survey of anomaly detection techniques in financial domain. Future Generation Computer Systems, 2016, 55, 278-288.	7.5	290
3	TON_IoT Telemetry Dataset: A New Generation Dataset of IoT and IIoT for Data-Driven Intrusion Detection Systems. IEEE Access, 2020, 8, 165130-165150.	4.2	260
4	SCADA SimuSCADA: A Framework for Building SCADA Simulations. IEEE Transactions on Smart Grid, 2011, 2, 589-597.	9.0	109
5	An Architecture and Performance Evaluation of Blockchain-Based Peer-to-Peer Energy Trading. IEEE Transactions on Smart Grid, 2021, 12, 3364-3378.	9.0	76
6	Identification of vulnerable node clusters against false data injection attack in an AMI based Smart Grid. Information Systems, 2015, 53, 201-212.	3.6	73
7	Building a SCADA Security Testbed. , 2009, , .		66
8	Modeling and performance evaluation of stealthy false data injection attacks on smart grid in the presence of corrupted measurements. Journal of Computer and System Sciences, 2017, 83, 58-72.	1.2	63
9	Comprehensive survey and taxonomies of false data injection attacks in smart grids: attack models, targets, and impacts. Renewable and Sustainable Energy Reviews, 2022, 163, 112423.	16.4	58
10	A survey of privacy preserving schemes in IoE enabled Smart Grid Advanced Metering Infrastructure. Cluster Computing, 2019, 22, 43-69.	5.0	56
11	Novel Approach for Network Traffic Pattern Analysis using Clustering-based Collective Anomaly Detection. Annals of Data Science, 2015, 2, 111-130.	3.2	54
12	A novel approach for outlier detection and clustering improvement. , 2013, , .		43
13	Critical infrastructure protection: Resource efficient sampling to improve detection of less frequent patterns in network traffic. Journal of Network and Computer Applications, 2010, 33, 491-502.	9.1	37
14	PPFSCADA: Privacy preserving framework for SCADA data publishing. Future Generation Computer Systems, 2014, 37, 496-511.	7.5	37
15	Microaggregation Sorting Framework for K-Anonymity Statistical Disclosure Control in Cloud Computing. IEEE Transactions on Cloud Computing, 2020, 8, 408-417.	4.4	37
16	A Taxonomy of Supervised Learning for IDSs in SCADA Environments. ACM Computing Surveys, 2021, 53, 1-37.	23.0	35
17	An Efficient Clustering Scheme to Exploit Hierarchical Data in Network Traffic Analysis. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 752-767.	5.7	34
18	Seamless integration of dependability and security concepts in SOA: A feedback control system based framework and taxonomy. Journal of Network and Computer Applications, 2011, 34, 1150-1159.	9.1	34

#	ARTICLE	IF	CITATIONS
19	Vulnerabilities of Smart Grid State Estimation Against False Data Injection Attack. Green Energy and Technology, 2014, , 411-428.	0.6	31
20	Anomaly detection in electric network database of smart grid: Graph matching approach. Electric Power Systems Research, 2016, 133, 51-62.	3.6	30
21	Building Resilience against COVID-19 Pandemic Using Artificial Intelligence, Machine Learning, and IoT: A Survey of Recent Progress. IoT, 2020, 1, 506-528.	3.8	29
22	Vulnerability and Impact Analysis of the IEC 61850 GOOSE Protocol in the Smart Grid. Sensors, 2021, 21, 1554.	3.8	28
23	A clustering based system for instant detection of cardiac abnormalities from compressed ECG. Expert Systems With Applications, 2011, 38, 4705-4713.	7.6	26
24	Network traffic analysis based on collective anomaly detection. , 2014, , .		26
25	A study on malicious software behaviour analysis and detection techniques: Taxonomy, current trends and challenges. Future Generation Computer Systems, 2022, 130, 1-18.	7.5	23
26	Data-Driven Stealthy Injection Attacks on Smart Grid with Incomplete Measurements. Lecture Notes in Computer Science, 2016, , 180-192.	1.3	22
27	A Probabilistic Model to Predict the Survivability of SCADA Systems. IEEE Transactions on Industrial Informatics, 2013, 9, 1975-1985.	11.3	21
28	A Data-Driven Approach to Distinguish Cyber-Attacks from Physical Faults in a Smart Grid. , 2015, , .		21
29	Compressed ECG Biometric: A Fast, Secured and Efficient Method for Identification of CVD Patient. Journal of Medical Systems, 2011, 35, 1349-1358.	3.6	20
30	Sub-curve HMM: A malware detection approach based on partial analysis of API call sequences. Computers and Security, 2020, 92, 101773.	6.0	19
31	Multi-State Energy Classifier to Evaluate the Performance of the NILM Algorithm. Sensors, 2019, 19, 5236.	3.8	18
32	Stealthy and blind false injection attacks on SCADA EMS in the presence of gross errors. , 2016, , .		17
33	Network Traffic Analysis and SCADA Security. , 2010, , 383-405.		17
34	Spam filtering for network traffic security on a multi-core environment. Concurrency Computation Practice and Experience, 2009, 21, 1307-1320.	2.2	15
35	A Spatiotemporal Data Summarization Approach for Real-Time Operation of Smart Grid. IEEE Transactions on Big Data, 2020, 6, 624-637.	6.1	13
36	Machine Learning to Ensure Data Integrity in Power System Topological Network Database. Electronics (Switzerland), 2020, 9, 693.	3.1	13

#	ARTICLE	IF	CITATIONS
37	Network Traffic Pattern Analysis Using Improved Information Theoretic Co-clustering Based Collective Anomaly Detection. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 204-219.	0.3	12
38	Estimation of smart grid topology using SCADA measurements. , 2016, , .		11
39	Clustering based semantic data summarization technique: A new approach. , 2014, , .		10
40	A Technique for Efficient Query Estimation over Distributed Data Streams. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 2770-2783.	5.6	10
41	False Data Injection Attack Targeting the LTC Transformers to Disrupt Smart Grid Operation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 252-266.	0.3	10
42	Software Clustering Using Automated Feature Subset Selection. Lecture Notes in Computer Science, 2013, , 47-58.	1.3	10
43	Outlier Detection. , 2014, , 3-22.		10
44	Diagnosis of cardiovascular abnormalities from compressed ECG: A data mining based approach. , 2009, , .		9
45	Can We Predict Dependencies Using Domain information?. , 2011, , .		9
46	Forensic Potentials of Solid State Drives. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 113-126.	0.3	9
47	Two-Tier Cache-Aided Full-Duplex Hybrid Satellite-terrestrial Communication Networks. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 1753-1765.	4.7	9
48	Firefly-inspired stochastic resonance for spectrum sensing in CR-based IoT communications. Neural Computing and Applications, 2020, 32, 16011-16023.	5.6	8
49	An Efficient Technique for Network Traffic Summarization using Multiview Clustering and Statistical Sampling. EAI Endorsed Transactions on Scalable Information Systems, 2015, 2, e4.	0.8	7
50	Computing Hierarchical Summary from Two-Dimensional Big Data Streams. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 803-818.	5.6	6
51	Uncertainty and evolutionary optimization: A novel approach. , 2014, , .		5
52	CF-PSO based loss sensitivity clustering technique to identify optimal DG allocation nodes for energy efficient smart grid operation. , 2014, , .		4
53	Measurement-driven blind topology estimation for sparse data injection attack in energy system. Electric Power Systems Research, 2022, 202, 107593.	3.6	4
54	A Novel Approach for Network Traffic Summarization. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 51-60.	0.3	4

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55	Mitigating consumer privacy breach in smart grid using obfuscation-based generative adversarial network. <i>Mathematical Biosciences and Engineering</i> , 2022, 19, 3350-3368.	1.9	4
56	Echidna: Efficient Clustering of Hierarchical Data for Network Traffic Analysis. <i>Lecture Notes in Computer Science</i> , 2006, , 1092-1098.	1.3	3
57	An Analytical Framework for Evaluating Survivability of SCADA Systems. , 2010, , .		3
58	Subset Selection Classifier (SSC): A Training Set Reduction Method. , 2013, , .		3
59	Swarm intelligence based multi-phase OPF for peak power loss reduction in a smart grid. , 2014, , .		3
60	A summarization paradigm for big data. , 2014, , .		3
61	Predicting dependences using domain-based coupling. <i>Journal of Software: Evolution and Process</i> , 2014, 26, 50-76.	1.6	3
62	Computing discounted multidimensional hierarchical aggregates using modified Misra Gries algorithm. <i>Performance Evaluation</i> , 2015, 91, 170-186.	1.2	3
63	Computing Hierarchical Summary of the Data Streams. <i>Lecture Notes in Computer Science</i> , 2016, , 168-179.	1.3	3
64	A hybrid approach to improving clustering accuracy using SVM. , 2013, , .		2
65	Enhanced estimation of Autoregressive wind power prediction model using Constriction Factor Particle Swarm Optimization. , 2014, , .		2
66	An Efficient Approach for Complex Data Summarization Using Multiview Clustering. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015, , 38-47.	0.3	2
67	Telemedicine Pre and Post Covid-19: Lessons for Commercialisation Based on Previous Use Cases. <i>Journal of the International Society for Telemedicine and EHealth</i> , 0, 8, .	0.0	2
68	Hierarchical summarization techniques for network traffic. , 2011, , .		1
69	K ⁺ Means Clustering Microaggregation for Statistical Disclosure Control. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 1109-1115.	0.6	1
70	New Multi-dimensional Sorting Based K-Anonymity Microaggregation for Statistical Disclosure Control. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2013, , 256-272.	0.3	1
71	Heart Disease Diagnosis Using Co-clustering. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015, , 61-70.	0.3	1
72	Novel Iterative Min-Max Clustering to Minimize Information Loss in Statistical Disclosure Control. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015, , 157-172.	0.3	1

#	ARTICLE	IF	CITATIONS
73	Survivable SCADA Systems: An Analytical Framework Using Performance Modelling. , 2010, , .		0
74	CHPSO-A new collaborative hybrid particle swarm optimization algorithm. , 2014, , .		0