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A Deep and Scalable Unsupervised Machine Learning System for Cyber-Attack Detection in Large-Scale Smart Grids

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158	Preventing False Tripping Cyberattacks Against Distance Relays: A Deep Learning Approach. 2019,		3
157	Deep learning for cyber security intrusion detection: Approaches, datasets, and comparative study. 2020 , 50, 102419		194
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155	An improved two-hidden-layer extreme learning machine for malware hunting. 2020 , 89, 101655		39
154	Integrated cyberattack detection and resilient control strategies using Lyapunov-based economic model predictive control. 2020 , 66, e17084		4
153	MQTTset, a New Dataset for Machine Learning Techniques on MQTT. 2020 , 20,		27
152	Security of Cyber-Physical Systems. 2020 ,		5
151	MVFCC: A Multi-View Fuzzy Consensus Clustering Model for Malware Threat Attribution. <i>IEEE Access</i> , 2020 , 8, 139188-139198	3.5	16
150	IoT Architecture for Cyber-Physical System State Estimation Using Unscented Kalman Filter. 2020,		
149	. IEEE Access, 2020 , 8, 156053-156066	3.5	22
148	Real-time stability assessment in smart cyber-physical grids: a deep learning approach. 2020 , 3, 454-461		8
147	Machine learning driven smart electric power systems: Current trends and new perspectives. 2020 , 272, 115237		62

(2021-2020)

146	Relaxation-based anomaly detection in cyber-physical systems using ensemble kalman filter. 2020 , 5, 49-58		23
145	Applications of Artificial Intelligence and Machine learning in smart cities. 2020 , 154, 313-323		152
144	Research and application of artificial intelligence service platform for the power field. 2020 , 3, 175-185		8
143	Blockchain Cybersecurity, Trust and Privacy. 2020 ,		4
142	Machine learning based solutions for security of Internet of Things (IoT): A survey. 2020 , 161, 102630		124
141	On the Resiliency of Power and Gas Integration Resources Against Cyber Attacks. <i>IEEE Transactions</i> on Industrial Informatics, 2021 , 17, 3099-3110	1.9	6
140	A survey on security and privacy of federated learning. 2021 , 115, 619-640		165
139	A review of machine learning applications in IoT-integrated modern power systems. 2021 , 34, 106879		17
138	A Learning-Based Framework for Detecting Cyber-Attacks Against Line Current Differential Relays. 2021 , 36, 2274-2286		6
137	Security aspects of Internet of Things aided smart grids: A bibliometric survey. 2021 , 14, 100111		64
136	. 2021 , 1-15		1
135	Support Vector Machine-Based Dynamic Cyber-Attack Detection in AGC System. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 343-355).2	O
134	A Secure Control Design for Networked Control Systems with Linear Dynamics under a Time-Delay Switch Attack. <i>Electronics (Switzerland)</i> , 2021 , 10, 322	2.6	4
133	Deep Learning in Smart Grid Technology: A Review of Recent Advancements and Future Prospects. **IEEE Access**, 2021 , 9, 54558-54578	5.5	21
132	A Review of Cyber-Physical Security for Photovoltaic Systems. 2021 , 1-1		7
131	A Recurrent Attention Model for Cyber Attack Classification. 2021 , 237-250		O
130	Privacy Preserving Federated Learning Solution for Security of Industrial Cyber Physical Systems. 2021 , 195-211		
129	CPS Attacks Mitigation Approaches on Power Electronic Systems With Security Challenges for Smart Grid Applications: A Review. <i>IEEE Access</i> , 2021 , 9, 38571-38601	5.5	5

128	Cyber Security of Smart Manufacturing Execution Systems: A Bibliometric Analysis. 2021, 105-119	1
127	Exploiting Internet of Things Protocols for Malicious Data Exfiltration Activities. <i>IEEE Access</i> , 2021 , 9, 104261-104280	5
126	Machine learning-based energy efficient technologies for smart grid. 2021, 31, e12744	2
125	A Multi-Stage Machine Learning Model for Security Analysis in Industrial Control System. 2021 , 213-236	1
124	Application of Deep Learning on IoT-Enabled Smart Grid Monitoring. 2021, 77-103	О
123	Security Risk Modeling in Smart Grid Critical Infrastructures in the Era of Big Data and Artificial Intelligence. 2021 , 13, 3196	12
122	Detecting and locating cyber and physical stresses in smart grids using the k-nearest neighbour analysis of instantaneous correlation of states. 2021 , 4, 307-320	2
121	Prediction of burning performance and emissions indexes of a turboprop motor with artificial neural network. 2021 , 93, 394-409	O
120	. 2021 , 7, 35-60	8
119	Artificial Intelligence Techniques in Smart Grid: A Survey. 2021 , 4, 548-568	25
119 118	Artificial Intelligence Techniques in Smart Grid: A Survey. 2021, 4, 548-568 A Survey of Machine Learning-based Cyber-physical Attack Generation, Detection, and Mitigation in Smart-Grid. 2021,	3
	A Survey of Machine Learning-based Cyber-physical Attack Generation, Detection, and Mitigation in	
118	A Survey of Machine Learning-based Cyber-physical Attack Generation, Detection, and Mitigation in Smart-Grid. 2021 ,	3
118	A Survey of Machine Learning-based Cyber-physical Attack Generation, Detection, and Mitigation in Smart-Grid. 2021, Intrusion Detection System for IOT Botnet Attacks Using Deep Learning. 2021, 2, 1 Reliability Evaluation of Smart Microgrids Considering Cyber Failures and Disturbances under	3 5
118 117 116	A Survey of Machine Learning-based Cyber-physical Attack Generation, Detection, and Mitigation in Smart-Grid. 2021, Intrusion Detection System for IOT Botnet Attacks Using Deep Learning. 2021, 2, 1 Reliability Evaluation of Smart Microgrids Considering Cyber Failures and Disturbances under Various Cyber Network Topologies and Distributed Generation Scenarios. 2021, 13, 5695 A Deep Learning-Based Cyberattack Detection System for Transmission Protective Relays. 2021,	3 5 4
118 117 116	A Survey of Machine Learning-based Cyber-physical Attack Generation, Detection, and Mitigation in Smart-Grid. 2021, Intrusion Detection System for IOT Botnet Attacks Using Deep Learning. 2021, 2, 1 Reliability Evaluation of Smart Microgrids Considering Cyber Failures and Disturbances under Various Cyber Network Topologies and Distributed Generation Scenarios. 2021, 13, 5695 A Deep Learning-Based Cyberattack Detection System for Transmission Protective Relays. 2021, 12, 2554-2565 Handling of stealthy sensor and actuator cyberattacks on evolving nonlinear process systems. 2021	3547
118 117 116 115	A Survey of Machine Learning-based Cyber-physical Attack Generation, Detection, and Mitigation in Smart-Grid. 2021, Intrusion Detection System for IOT Botnet Attacks Using Deep Learning. 2021, 2, 1 Reliability Evaluation of Smart Microgrids Considering Cyber Failures and Disturbances under Various Cyber Network Topologies and Distributed Generation Scenarios. 2021, 13, 5695 A Deep Learning-Based Cyberattack Detection System for Transmission Protective Relays. 2021, 12, 2554-2565 Handling of stealthy sensor and actuator cyberattacks on evolving nonlinear process systems. 2021, 3,	3 5 4 7

110	On the Pivotal Role of Artificial Intelligence Toward the Evolution of Smart Grids. 2021, 359-420	2
109	Physical layer attack identification and localization in cyberphysical grid: An ensemble deep learning based approach. 2021 , 47, 101394	6
108	SDN-Based Resilient Smart Grid: The SDN-microSENSE Architecture. 2021 , 1, 173-187	4
107	Cybersecurity in Power Grids: Challenges and Opportunities. 2021 , 21,	5
106	Machine learning on sustainable energy: A review and outlook on renewable energy systems, catalysis, smart grid and energy storage. 2021 , 174, 414-441	20
105	Generative adversarial network to detect unseen Internet of Things malware. 2021 , 122, 102591	9
104	A Hybrid Deep Random Neural Network for Cyberattack Detection in the Industrial Internet of Things. <i>IEEE Access</i> , 2021 , 9, 55595-55605	20
103	Deep Representation Learning for Cyber-Attack Detection in Industrial IoT. 2021 , 139-162	1
102	The Role of Machine Learning in IIoT Through FPGAs. 2021 , 121-137	
101	Artificial Intelligence for Threat Detection and Analysis in Industrial IoT: Applications and Challenges. 2021 , 1-6	
100	Complementing IIoT Services Through AI: Feasibility and Suitability. 2021 , 7-19	2
99	Blockchain Applications in Power Systems: A Bibliometric Analysis. 2020 , 129-145	3
98	Anomaly Detection in Cyber-Physical Systems Using Machine Learning. 2020 , 219-235	12
97	Privacy and Security in Smart and Precision Farming: A Bibliometric Analysis. 2020 , 305-318	9
96	A Hybrid Deep Generative Local Metric Learning Method for Intrusion Detection. 2020 , 343-357	13
95	Industrial Big Data Analytics: Challenges and Opportunities. 2020 , 37-61	8
94	A Privacy Protection Key Agreement Protocol Based on ECC for Smart Grid. 2020 , 63-76	4
93	Applications of Big Data Analytics and Machine Learning in the Internet of Things. 2020, 77-108	12

92	A Comparison of State-of-the-Art Machine Learning Models for OpCode-Based IoT Malware Detection. 2020 , 109-120	5
91	Artificial Intelligence and Security of Industrial Control Systems. 2020 , 121-164	5
90	Enhancing Network Security Via Machine Learning: Opportunities and Challenges. 2020, 165-189	7
89	A Comparison Between Different Machine Learning Models for IoT Malware Detection. 2020 , 195-202	5
88	The Risk of Botnets in Cyber Physical Systems. 2020 , 81-106	5
87	Learning Based Anomaly Detection in Critical Cyber-Physical Systems. 2020 , 107-130	8
86	AI-Enabled Security Monitoring in Smart Cyber Physical Grids. 2020 , 145-167	6
85	Application of Machine Learning in State Estimation of Smart Cyber-Physical Grid. 2020, 169-194	2
84	An Ensemble of Deep Recurrent Neural Networks for Detecting IoT Cyber Attacks Using Network Traffic. 2020 , 7, 8852-8859	49
83	An Ensemble Deep Convolutional Neural Network Model for Electricity Theft Detection in Smart Grids. 2020 ,	7
82	. 2020,	8
81	Introduction and Literature Review of Power System Challenges and Issues. 2021 , 19-43	1
80	. 2021,	2
79	Deep Learning in IoT Intrusion Detection. 2022 , 30, 1	11
78	An Approach of Security Model to Mitigate Risk of Cyberattacks on Public Institutions in Ecuador. 2020 ,	
77	The Spatial Analysis of the Malicious Uniform Resource Locators (URLs): 2016 Dataset Case Study. 2021 , 12, 2	1
76	False Data Injection Attacks in Smart Grid Using Gaussian Mixture Model. 2020,	
75	Big Data and Privacy: Challenges and Opportunities. 2020 , 1-5	6

74	AI and Security of Critical Infrastructure. 2020 , 7-36		1
73	Big Data Application for Security of Renewable Energy Resources. 2020 , 237-254		1
72	Big-Data and Cyber-Physical Systems in Healthcare: Challenges and Opportunities. 2020 , 255-283		3
71	Design and Operation Framework for Industrial Control System Security Exercise. 2020 , 25-51		1
70	Privacy Preserving Abnormality Detection: A Deep Learning Approach. 2020, 285-303		
69	A Survey on Application of Big Data in Fin Tech Banking Security and Privacy. 2020 , 319-342		3
68	Securing SCADA Systems against Cyber-Attacks using Artificial Intelligence. 2021,		1
67	A Survey on Energy Efficiency in Smart Homes and Smart Grids. <i>Energies</i> , 2021 , 14, 7273	3.1	5
66	. IEEE Access, 2021 , 9, 152379-152396	3.5	4
65	Joint Adversarial Example and False Data Injection Attacks for State Estimation in Power Systems. 2021 , PP,		2
64	Adaptive Neural Trees for Attack Detection in Cyber Physical Systems. 2022 , 89-104		
63	Fuzzy Bayesian Learning for Cyber Threat Hunting in Industrial Control Systems. 2022 , 117-130		
62	Security of Industrial Cyberspace: Fair Clustering with Linear Time Approximation. 2022, 75-88		
61	Scalable Fair Clustering Algorithm for Internet of Things Malware Classification. 2022 , 271-287		O
60	Cyber-Attack Detection in Cyber-Physical Systems Using Supervised Machine Learning. 2022 , 131-140		1
59	Evaluation of Scalable Fair Clustering Machine Learning Methods for Threat Hunting in Cyber-Physical Systems. 2022 , 141-158		
58	Time Series Anomaly Detection for Smart Grids: A Survey. 2021 ,		1
57	Intrusion Resilience Analysis of Smart Meters. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 377-391	0.2	

56	A Self-tuning Cyber-Attacks Location Identification Approach for Industrial Internet of Things. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9	2
55	MQTT Attack Detection Using AI and ML Algorithm. Lecture Notes in Networks and Systems, 2022, 13-23	2 0.5	
54	Optimized cyber-attack detection method of power systems using sliding mode observer. <i>Electric Power Systems Research</i> , 2022 , 205, 107745	3.5	1
53	Instability Prediction in Smart Cyber-physical Grids Using Feedforward Neural Networks. 2020 ,		
52	Cyber-Attack Identification of Synchrophasor Data Via VMD and Multi-fusion SVM. <i>IEEE Transactions on Industry Applications</i> , 2022 , 1-1	4.3	О
51	A comprehensive survey on machine learning approaches for malware detection in IoT-based enterprise information system. <i>Enterprise Information Systems</i> , 1-25	3.5	15
50	Data-Driven Detection of Stealthy False Data Injection Attack Against Power System State Estimation. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1	11.9	4
49	Salp Swarm-Artificial Neural Network Based Cyber-Attack Detection in Smart Grid. <i>Neural Processing Letters</i> ,	2.4	O
48	LSTM based Deep Learning Technique to Forecast Internet of Things Attacks in MQTT Protocol. 2022 ,		1
47	Data Integrity Attack in Dynamic State Estimation of Smart Grid: Attack Model and Countermeasures. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022 , 1-14	4.9	O
46	Challenges and opportunities for the energy management of sustainable data centers in smart grids. IOP Conference Series: Earth and Environmental Science, 2022, 984, 012005	0.3	
45	A Review on Conceptual Model of Cyber Attack Detection and Mitigation Using Deep Ensemble Model. <i>International Journal of Applied Engineering and Management Letters</i> , 149-159		
44	Novel SHP-ECC Mechanism Architecture for Attack Node Mitigation and to Predict Future Community Intrusions. <i>International Journal of Applied Engineering and Management Letters</i> , 176-183		1
43	Detection of false data injection attacks leading to line congestions using Neural Networks. <i>Sustainable Cities and Society</i> , 2022 , 103861	10.1	O
42	Data analytics for cybersecurity enhancement of transformer protection. 2021 , 1, 12-19		O
41	A Synoptic Review on Feature Selection and Machine Learning models used for Detecting Cyber Attacks in IoT. 2021 ,		
40	Neural Networks-Based Detection of Cyber-Physical Attacks Leading to Blackouts in Smart Grids. 2021 ,		
39	SteelEye: An Application-Layer Attack Detection and Attribution Model in Industrial Control Systems using Semi-Deep Learning. 2021 ,		O

 $_{
m 38}$ Intraday Optimization Control of IES with Hydrogen Injection under Attack Scenarios. **2021**,

37	Deep Federated Learning-Based Cyber-Attack Detection in Industrial Control Systems. 2021 ,		O
36	Adequacy and Limitations of the Information Technology Act in Addressing Cyber-Security Issues of Indian Power Systems. 2021 ,		
35	Identification of the best model to predict optical properties of water. <i>Environment, Development and Sustainability</i> , 1	4.5	1
34	Smart Grid Security and Privacy: From Conventional to Machine Learning Issues (Threats and Countermeasures). <i>IEEE Access</i> , 2022 , 1-1	3.5	О
33	Recent review of Distributed Denial of Service Attacks in the Internet of Things. 2022,		O
32	Anomaly Detection in Multi-Host Environment Based on Federated Hypersphere Classifier. <i>Electronics (Switzerland)</i> , 2022 , 11, 1529	2.6	
31	Monitoring and Controlling of Smart Grid Based on Cyber-Physical System. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 637-654	0.2	O
30	Anomaly Detection in Smart Grids: A Survey From Cybersecurity Perspective*. 2022,		1
29	Intrusion Detection Method Based on SMOTE Transformation for Smart Grid Cybersecurity. 2022,		O
28	Heuristic Intrusion Detection Based on Traffic Flow Statistical Analysis. <i>Energies</i> , 2022 , 15, 3951	3.1	О
27	A Synoptic Review on Feature Selection and Machine Learning models used for Detecting Cyber Attacks in IoT. 2021 ,		
26	A Review of Unsupervised Machine Learning Frameworks for Anomaly Detection in Industrial Applications. <i>Lecture Notes in Networks and Systems</i> , 2022 , 158-189	0.5	
25	A Survey on Network Security for Cyber-Physical Systems: From Threats to Resilient Design. <i>IEEE Communications Surveys and Tutorials</i> , 2022 , 1-1	37.1	3
24	Machine learning for cybersecurity in smart grids: A comprehensive review-based study on methods, solutions, and prospects. <i>International Journal of Critical Infrastructure Protection</i> , 2022 , 38, 100547	4.1	1
23	Facilitating DoS Attack Detection using Unsupervised Anomaly Detection. 2022,		
22	Intelligent Intrusion Detection Scheme for Smart Power-Grid Using Optimized Ensemble Learning on Selected Features. 2022 , 39, 100567		O
21	Improving the Stability of Intrusion Detection with Causal Deep Learning. 2022, 1-1		O

Leveraging the Influence of Power Grid Links in Renewable Energy Power Generation. **2022**, 10, 100234-100246

19	Digital Modeling System for Dynamic Nonlinear Systems of Power Equipment in Digital Grids and 5G. 2022 , 2022, 1-11	1
18	Accurate threat hunting in industrial internet of things edge devices. 2022,	O
17	A systematic review of machine learning techniques related to local energy communities. 2022 , 170, 112651	O
16	Smart Grid Cyber Security Enhancement: Challenges and Solutions Review. 2022, 14, 14226	2
15	Recurrent nonsymmetric deep auto encoder approach for network intrusion detection system. 2022 , 24, 100527	O
14	An ensemble deep federated learning cyber-threat hunting model for Industrial Internet of Things. 2022 ,	1
13	A comprehensive review of cyber-attacks and defense mechanisms for improving security in smart grid energy systems: Past, present and future. 2023 , 215, 108975	9
12	Evaluating Synthetic Datasets for Training Machine Learning Models to Detect Malicious Commands. 2022 ,	0
11	An innovative deep anomaly detection of building energy consumption using energy time-series images. 2023 , 119, 105775	O
10	A Comparative Analysis of Supervised and Unsupervised Models for Detecting Attacks on the Intrusion Detection Systems. 2023 , 14, 103	2
9	A Supervised Early Attack Detection Mechanism for Smart Grid Networks. 2023,	O
8	A Survey of Explainable Artificial Intelligence for Smart Cities. 2023 , 12, 1020	2
7	Hybrid ML-Based Technique to Classify Malicious Activity Using Log Data of Systems. 2023 , 13, 2707	O
6	Data-Driven Apprehension of Cyber and Physical Anomalies in Distribution System. 2022,	0
5	A Review of Data-Driven Approaches with Emphasis on Machine Learning Base Intrusion Detection Algorithms. 2022 ,	О
4	An Artificial Intelligence Enabled Self Replication System Against Cyber Attacks. 2023,	0
3	A Review on Cyber Security and Anomaly Detection Perspectives of Smart Grid. 2023,	O

2 Artificial Intelligence Techniques: Smart Way to Smart Grid. **2023**,

О

Encrypted Cost Based Load Forecasting With Attack Regression Capacity for CPS Model Based Anomaly Detection in Smart Grid Security. **2023**,

C