RafaÅ, Kozik

List of Publications by Year
in descending order

118 papers	1,367 citations	471371 17 h-index	477173 29 g-index
137 all docs	137 docs citations	137 times ranked	862 citing authors

#	Article	IF	Citations
1	A scalable distributed machine learning approach for attack detection in edge computing environments. Journal of Parallel and Distributed Computing, 2018, 119, 18-26.	2.7	103
2	Defending network intrusion detection systems against adversarial evasion attacks. Future Generation Computer Systems, 2020, 110, 148-154.	4.9	83
3	A Deep Learning Ensemble for Network Anomaly and Cyber-Attack Detection. Sensors, 2020, 20, 4583.	2.1	73
4	Contactless palmprint and knuckle biometrics for mobile devices. Pattern Analysis and Applications, 2012, 15, 73-85.	3.1	61
5	Simulation platform for cyber-security and vulnerability analysis of critical infrastructures. Journal of Computational Science, 2017, 22, 179-186.	1.5	46
6	Machine learning techniques applied to detect cyber attacks on web applications. Logic Journal of the IGPL, 2015, 23, 45-56.	1.3	44
7	New explainability method for BERT-based model in fake news detection. Scientific Reports, 2021, 11, 23705.	1.6	41
8	A new method of hybrid time window embedding with transformer-based traffic data classification in IoT-networked environment. Pattern Analysis and Applications, 2021, 24, 1441-1449.	3.1	35
9	Achieving Explainability of Intrusion Detection System by Hybrid Oracle-Explainer Approach. , 2020, , .		30
10	Sentiment Analysis for Fake News Detection by Means of Neural Networks. Lecture Notes in Computer Science, 2020, , 653-666.	1.0	28
11	A survey on neural networks for (cyber-) security and (cyber-) security of neural networks. Neurocomputing, 2022, 500, 1075-1087.	3.5	25
12	Machine Learning â€" The Results Are Not the only Thing that Matters! What About Security, Explainability and Fairness?. Lecture Notes in Computer Science, 2020, , 615-628.	1.0	24
13	Measuring and Improving Agile Processes in a Small-Size Software Development Company. IEEE Access, 2020, 8, 78452-78466.	2.6	21
14	Advanced services for critical infrastructures protection. Journal of Ambient Intelligence and Humanized Computing, 2015, 6, 783-795.	3.3	20
15	Fake News Detection from Data Streams. , 2020, , .		20
16	Hybrid Model for Improving the Classification Effectiveness of Network Intrusion Detection. Advances in Intelligent Systems and Computing, 2021, , 405-414.	0.5	20
17	Distributing extreme learning machines with Apache Spark for NetFlow-based malware activity detection. Pattern Recognition Letters, 2018, 101, 14-20.	2.6	19
18	Data-driven and tool-supported elicitation of quality requirements in agile companies. Software Quality Journal, 2020, 28, 931-963.	1.4	19

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19	A $10 million question and other cybersecurity-related ethical dilemmas amid the COVID-19 pandemic. Business Horizons, 2021, 64, 729-734.	3.4	18
20	Application of the BERT-Based Architecture in Fake News Detection. Advances in Intelligent Systems and Computing, 2021, , 239-249.	0.5	18
21	The Proposition and Evaluation of the RoEduNet-SIMARGL2021 Network Intrusion Detection Dataset. Sensors, 2021, 21, 4319.	2.1	17
22	A Systematic Review of Recommender Systems and Their Applications in Cybersecurity. Sensors, 2021, 21, 5248.	2.1	17
23	Network Traffic Prediction and Anomaly Detection Based on ARFIMA Model. Advances in Intelligent Systems and Computing, 2014, , 545-554.	0.5	17
24	Correlation Approach for SQL Injection Attacks Detection. Advances in Intelligent Systems and Computing, 2013, , 177-185.	0.5	17
25	Current cyber security threats and challenges in critical infrastructures protection. , 2013, , .		16
26	Machine Learning Methods for Fake News Classification. Lecture Notes in Computer Science, 2019, , 332-339.	1.0	16
27	Cost-Sensitive Distributed Machine Learning for NetFlow-Based Botnet Activity Detection. Security and Communication Networks, 2018, 2018, 1-8.	1.0	15
28	A Proposal of Algorithm for Web Applications Cyber Attack Detection. Lecture Notes in Computer Science, 2014, , 680-687.	1.0	15
29	Knuckle Biometrics Based on Texture Features. , 2010, , .		14
30	On the Impact of Network Data Balancing in Cybersecurity Applications. Lecture Notes in Computer Science, 2020, , 196-210.	1.0	14
31	Q-Rapids Tool Prototype: Supporting Decision-Makers in Managing Quality in Rapid Software Development. Lecture Notes in Business Information Processing, 2018, , 200-208.	0.8	14
32	SocialTruth Project Approach to Online Disinformation (Fake News) Detection and Mitigation. , 2019, , .		13
33	DWTâ€based anomaly detection method for cyber security of wireless sensor networks. Security and Communication Networks, 2016, 9, 2911-2922.	1.0	12
34	Implementation of the BERT-derived architectures to tackle disinformation challenges. Neural Computing and Applications, 2022, 34, 20449-20461.	3.2	12
35	Modelling HTTP Requests with Regular Expressions for Detection of Cyber Attacks Targeted at Web Applications. Advances in Intelligent Systems and Computing, 2014, , 527-535.	0.5	12
36	Comprehensive Approach to Increase Cyber Security and Resilience. , 2015, , .		11

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37	Pattern Recognition Solutions for Fake News Detection. Lecture Notes in Computer Science, 2018, , 130-139.	1.0	11
38	Practical Employment of Granular Computing to Complex Application Layer Cyberattack Detection. Complexity, 2019, 2019, 1-9.	0.9	11
39	Ontology Applied in Decision Support System for Critical Infrastructures Protection. Lecture Notes in Computer Science, 2010, , 671-680.	1.0	10
40	Pattern Extraction Algorithm for NetFlow-Based Botnet Activities Detection. Security and Communication Networks, 2017, 2017, 1-10.	1.0	10
41	A Practical Framework and Guidelines to Enhance Cyber Security and Privacy. Advances in Intelligent Systems and Computing, 2015, , 485-495.	0.5	10
42	Cyber Threats Impacting Critical Infrastructures. Studies in Systems, Decision and Control, 2016, , 139-161.	0.8	10
43	Data-Driven Elicitation of Quality Requirements in Agile Companies. Communications in Computer and Information Science, 2019, , 49-63.	0.4	9
44	Technical solution to counter potential crime: Text analysis to detect fake news and disinformation. Journal of Computational Science, 2022, 60, 101576.	1.5	9
45	Machine Learning Techniques for Cyber Attacks Detection. Advances in Intelligent Systems and Computing, 2014, , 391-398.	0.5	8
46	Solution to Data Imbalance Problem in Application Layer Anomaly Detection Systems. Lecture Notes in Computer Science, 2016, , 441-450.	1.0	8
47	Packets tokenization methods for web layer cyber security. Logic Journal of the IGPL, 2017, 25, 103-113.	1.3	8
48	Lightweight Verification Schema for Image-Based Palmprint Biometric Systems. Mobile Information Systems, 2019, 2019, 1-9.	0.4	8
49	First broad and systematic horizon scanning campaign and study to detect societal and ethical dilemmas and emerging issues spanning over cybersecurity solutions. Personal and Ubiquitous Computing, 2023, 27, 193-202.	1.9	8
50	Decision Aid Tool and Ontology-Based Reasoning for Critical Infrastructure Vulnerabilities and Threats Analysis. Lecture Notes in Computer Science, 2010, , 98-110.	1.0	8
51	The overview of trends and challenges in mobile biometrics. Journal of Applied Mathematics and Computational Mechanics, 2017, 16, 173-185.	0.3	8
52	Evaluation of guard channel admission control schemes for IEEE 802.16 with integrated nb-LDPC codes. , 2009, , .		7
53	Adapting an Ensemble of One-Class Classifiers for a Web-Layer Anomaly Detection System. , 2015, , .		7
54	Extreme Learning Machines for Web Layer Anomaly Detection. Advances in Intelligent Systems and Computing, 2017, , 226-233.	0.5	7

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55	How to Effectively Collect and Process Network Data for Intrusion Detection?. Entropy, 2021, 23, 1532.	1.1	7
56	Stegomalware detection through structural analysis of media files. , 2020, , .		7
57	Real-time stream processing tool for detecting suspicious network patterns using machine learning. , 2020, , .		7
58	Ontology-Based Decision Support for Security Management in Heterogeneous Networks. Lecture Notes in Computer Science, 2009, , 920-927.	1.0	6
59	Proposal and comparison of network anomaly detection based on long-memory statistical models. Logic Journal of the IGPL, 2016, 24, 944-956.	1.3	6
60	Increasing product ownersâ€™ cognition and decision-making capabilities by data analysis approach. Cognition, Technology and Work, 2019, 21, 191-200.	1.7	6
61	Q-Rapids framework for advanced data analysis to improve rapid software development. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 1927-1936.	3.3	6
62	Fusion of Bayesian and Ontology Approach Applied to Decision Support System for Critical Infrastructures Protection. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 451-463.	0.2	6
63	Evolutionaryâ€based packets classification for anomaly detection in web layer. Security and Communication Networks, 2016, 9, 2901-2910.	1.0	5
64	Protecting the application layer in the public domain with machine learning methods. Logic Journal of the IGPL, 2019, 27, 149-159.	1.3	5
65	Intelligent operator: Machine learning based decision support and explainer for human operators and service providers in the fog, cloud and edge networks. Journal of Information Security and Applications, 2021, 56, 102685.	1.8	5
66	Software Development Metrics Prediction Using Time Series Methods. Lecture Notes in Computer Science, 2019, , 311-323.	1.0	5
67	The Feasibility of Deep Learning Use for Adversarial Model Extraction in the Cybersecurity Domain. Lecture Notes in Computer Science, 2019, , 353-360.	1.0	5
68	Semi-unsupervised Machine Learning for Anomaly Detection in HTTP Traffic. Advances in Intelligent Systems and Computing, 2016, , 767-775.	0.5	5
69	Unsupervised network traffic anomaly detection with deep autoencoders. Logic Journal of the IGPL, 2022, 30, 912-925.	1.3	5
70	WiMAX Cell Level Simulation Platform Based on ns-2 and DSP Integration. International Journal of Electronics and Telecommunications, 2010, 56, 169-176.	0.5	4
71	Machine Learning Techniques for Threat Modeling and Detection. , 2018, , 179-192.		4
72	New solutions for exposing clustered applications deployed in the cloud. Cluster Computing, 2019, 22, 829-838.	3.5	4

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73	Multimedia analysis platform for crime prevention and investigation. Multimedia Tools and Applications, 2021, 80, 23681.	2.6	4
74	Cyber Security of the Application Layer of Mission Critical Industrial Systems. Lecture Notes in Computer Science, 2016, , 342-351.	1.0	4
75	The Concept of Applying Lifelong Learning Paradigm to Cybersecurity. Lecture Notes in Computer Science, 2017, , 663-671.	1.0	4
76	SMAS - Stereovision Mobility Aid System for People with a Vision Impairment. Advances in Intelligent and Soft Computing, 2010, , 315-322.	0.2	4
77	Stereovision System for Visually Impaired. Advances in Intelligent and Soft Computing, 2011, , 459-468.	0.2	4
78	Network Event Correlation and Semantic Reasoning for Federated Networks Protection System. Communications in Computer and Information Science, 2011, , 48-54.	0.4	4
79	Improving Depth Map Quality with Markov Random Fields. Advances in Intelligent and Soft Computing, 2011, , 149-156.	0.2	4
80	Palmprint Recognition Enhanced by the Shape Features. , 2008, , .		3
81	Knuckle Recognition for Human Identification. Advances in Intelligent and Soft Computing, 2011, , 61-70.	0.2	3
82	Emerging Cyber Security: Bio-inspired Techniques and MITM Detection in IoT. Advanced Sciences and Technologies for Security Applications, 2016, , 193-207.	0.4	3
83	Distributed System for Botnet Traffic Analysis and Anomaly Detection. , 2017, , .		3
84	Recognizing Faults in Software Related Difficult Data. Lecture Notes in Computer Science, 2019, , 263-272.	1.0	3
85	How Machine Learning May Prevent the Breakdown of Democracy by Contributing to Fake News Detection. IT Professional, 2022, 24, 25-31.	1.4	3
86	A Novel Shape-Texture Approach to Palmprint Detection and Identification. , 2008, , .		2
87	Performance comparison of guard channel admission control schemes for IEEE 802.16 system with various turbo code FEC schemes. , 2009, , .		2
88	Data analysis tool supporting software development process. , 2017, , .		2
89	Hybrid Feature Extraction for Palmprint-Based User Authentication. , 2018, , .		2
90	Artificial Neural Network Hyperparameter Optimisation for Network Intrusion Detection. Lecture Notes in Computer Science, 2019, , 749-760.	1.0	2

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91	Common Representational Model and Ontologies for Effective Law Enforcement Solutions. Vietnam Journal of Computer Science, 2020, 07, 1-18.	1.0	2
92	Network Intrusion Detection in the Wild - the Orange use case in the SIMARGL project. , 2021, , .		2
93	Transformer Based Models in Fake News Detection. Lecture Notes in Computer Science, 2021, , 28-38.	1.0	2
94	The Identification and Creation of Ontologies for the Use in Law Enforcement AI Solutions â€" MAGNETO Platform Use Case. Lecture Notes in Computer Science, 2019, , 335-345.	1.0	2
95	Evaluation of Various Techniques for SQL Injection Attack Detection. Advances in Intelligent Systems and Computing, 2013, , 753-762.	0.5	2
96	Feature Extraction Method for Contactless Palmprint Biometrics. Communications in Computer and Information Science, 2010, , 435-442.	0.4	2
97	Real-Time Analysis of Non-stationary and Complex Network Related Data for Injection Attempts Detection. Advances in Intelligent Systems and Computing, 2014, , 257-264.	0.5	2
98	Hardening Web Applications against SQL Injection Attacks Using Anomaly Detection Approach. Advances in Intelligent Systems and Computing, 2015, , 285-292.	0.5	1
99	Recent Granular Computing Implementations and its Feasibility in Cybersecurity Domain. , 2018, , .		1
100	Extending Machine Learning-Based Intrusion Detection with the Imputation Method. Lecture Notes in Networks and Systems, 2022, , 284-292.	0.5	1
101	Why Do Law Enforcement Agencies Need AI for Analyzing Big Data?. Lecture Notes in Computer Science, 2021, , 331-342.	1.0	1
102	Online Social Networks: Emerging Security and Safety Applications. Advances in Intelligent Systems and Computing, 2013, , 291-302.	0.5	1
103	Information Exchange Mechanism between Federated Domains: P2P Approach. Advances in Intelligent Systems and Computing, 2013, , 187-196.	0.5	1
104	Computer Vision Method for Detecting Adult-Oriented Content in Images. Advances in Intelligent Systems and Computing, 2013, , 19-24.	0.5	1
105	A Simplified Visual Cortex Model for Efficient Image Codding and Object Recognition. Advances in Intelligent Systems and Computing, 2014, , 271-278.	0.5	1
106	Distributed Architecture for Fake News Detection. Advances in Intelligent Systems and Computing, 2021, , 208-217.	0.5	1
107	Actionable Software Metrics. , 2020, , .		1
108	Advances in Computer Recognition, Image Processing and Communications. Entropy, 2022, 24, 108.	1.1	1

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109	The mobile palmprint-based verification based on three-value masks. , 2019, , .		0
110	Fault-Prone Software Classes Recognition via Artificial Neural Network with Granular Dataset Balancing. Advances in Intelligent Systems and Computing, 2020, , 130-140.	0.5	0
111	Towards AI-Based Reaction and MitigationÂforÂe-Commerce - the ENSURESEC Engine. Lecture Notes in Computer Science, 2021, , 24-31.	1.0	0
112	The Proposition of Balanced and Explainable Surrogate Method for Network Intrusion Detection in Streamed Real Difficult Data. Communications in Computer and Information Science, 2021, , 241-252.	0.4	0
113	Cyber-Attack Detection from IoT Benchmark Considered as Data Streams. Lecture Notes in Networks and Systems, 2022, , 230-239.	0.5	0
114	Recognizing Anomalies/Intrusions in Heterogeneous Networks. Advances in Intelligent and Soft Computing, 2009, , 577-584.	0.2	0
115	Local Statistic Embedding for Malware Behaviour Modelling. Advances in Intelligent Systems and Computing, 2016, , 267-273.	0.5	0
116	Netflow-Based Malware Detection and Data Visualisation System. Lecture Notes in Computer Science, 2017, , 652-660.	1.0	0
117	Running Sports Decision Aid Tool Based on Reinforcement Learning Approach. Advances in Intelligent Systems and Computing, 2018, , 160-169.	0.5	0
118	Towards Mobile Palmprint Biometric System with the New Palmprint Database. Advances in Intelligent Systems and Computing, 2020, , 149-157.	0.5	0