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	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
2	Implementation of the BERT-derived architectures to tackle disinformation challenges. Neural Computing and Applications, 2022, 34, 20449-20461.	3.2	12
3	Extending Machine Learning-Based Intrusion Detection with the Imputation Method. Lecture Notes in Networks and Systems, 2022, , 284-292.	0.5	1
4	Cyber-Attack Detection from IoT Benchmark Considered as Data Streams. Lecture Notes in Networks and Systems, 2022, , 230-239.	0.5	0
5	Advances in Computer Recognition, Image Processing and Communications. Entropy, 2022, 24, 108.	1.1	1
6	Unsupervised network traffic anomaly detection with deep autoencoders. Logic Journal of the IGPL, 2022, 30, 912-925.	1.3	5
7	Technical solution to counter potential crime: Text analysis to detect fake news and disinformation. Journal of Computational Science, 2022, 60, 101576.	1.5	9
8	How Machine Learning May Prevent the Breakdown of Democracy by Contributing to Fake News Detection. IT Professional, 2022, 24, 25-31.	1.4	3
9	A survey on neural networks for (cyber-) security and (cyber-) security of neural networks. Neurocomputing, 2022, 500, 1075-1087.	3.5	25
10	Towards AI-Based Reaction and MitigationÂforÂe-Commerce - the ENSURESEC Engine. Lecture Notes in Computer Science, 2021, , 24-31.	1.0	0
11	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
12	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
13	Multimedia analysis platform for crime prevention and investigation. Multimedia Tools and Applications, 2021, 80, 23681.	2.6	4
14	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
15	The Proposition and Evaluation of the RoEduNet-SIMARGL2021 Network Intrusion Detection Dataset. Sensors, 2021, 21, 4319.	2.1	17
16	A $10 million question and other cybersecurity-related ethical dilemmas amid the COVID-19 pandemic. Business Horizons, 2021, 64, 729-734.	3.4	18
17	A Systematic Review of Recommender Systems and Their Applications in Cybersecurity. Sensors, 2021, 21, 5248.	2.1	17
18	Network Intrusion Detection in the Wild - the Orange use case in the SIMARGL project. , 2021, , .		2

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19	Why Do Law Enforcement Agencies Need AI for Analyzing Big Data?. Lecture Notes in Computer Science, 2021, , 331-342.	1.0	1
20	Transformer Based Models in Fake News Detection. Lecture Notes in Computer Science, 2021, , 28-38.	1.0	2
21	Application of the BERT-Based Architecture in Fake News Detection. Advances in Intelligent Systems and Computing, 2021, , 239-249.	0.5	18
22	Hybrid Model for Improving the Classification Effectiveness of Network Intrusion Detection. Advances in Intelligent Systems and Computing, 2021, , 405-414.	0.5	20
23	Distributed Architecture for Fake News Detection. Advances in Intelligent Systems and Computing, 2021, , 208-217.	0.5	1
24	How to Effectively Collect and Process Network Data for Intrusion Detection?. Entropy, 2021, 23, 1532.	1.1	7
25	New explainability method for BERT-based model in fake news detection. Scientific Reports, 2021, 11, 23705.	1.6	41
26	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
27	Fake News Detection from Data Streams. , 2020, , .		20
28	Achieving Explainability of Intrusion Detection System by Hybrid Oracle-Explainer Approach. , 2020, , .		30
29	A Deep Learning Ensemble for Network Anomaly and Cyber-Attack Detection. Sensors, 2020, 20, 4583.	2.1	73
30	Common Representational Model and Ontologies for Effective Law Enforcement Solutions. Vietnam Journal of Computer Science, 2020, 07, 1-18.	1.0	2
31	Data-driven and tool-supported elicitation of quality requirements in agile companies. Software Quality Journal, 2020, 28, 931-963.	1.4	19
32	Measuring and Improving Agile Processes in a Small-Size Software Development Company. IEEE Access, 2020, 8, 78452-78466.	2.6	21
33	Defending network intrusion detection systems against adversarial evasion attacks. Future Generation Computer Systems, 2020, 110, 148-154.	4.9	83
34	On the Impact of Network Data Balancing in Cybersecurity Applications. Lecture Notes in Computer Science, 2020, , 196-210.	1.0	14
35	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
36	Sentiment Analysis for Fake News Detection by Means of Neural Networks. Lecture Notes in Computer Science, 2020, , 653-666.	1.0	28

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37	Towards Mobile Palmprint Biometric System with the New Palmprint Database. Advances in Intelligent Systems and Computing, 2020, , 149-157.	0.5	0
38	Actionable Software Metrics. , 2020, , .		1
39	Stegomalware detection through structural analysis of media files. , 2020, , .		7
40	Real-time stream processing tool for detecting suspicious network patterns using machine learning. , 2020, , .		7
41	Artificial Neural Network Hyperparameter Optimisation for Network Intrusion Detection. Lecture Notes in Computer Science, 2019, , 749-760.	1.0	2
42	SocialTruth Project Approach to Online Disinformation (Fake News) Detection and Mitigation. , 2019, , .		13
43	Lightweight Verification Schema for Image-Based Palmprint Biometric Systems. Mobile Information Systems, 2019, 2019, 1-9.	0.4	8
44	Practical Employment of Granular Computing to Complex Application Layer Cyberattack Detection. Complexity, 2019, 2019, 1-9.	0.9	11
45	The mobile palmprint-based verification based on three-value masks. , 2019, , .		0
46	New solutions for exposing clustered applications deployed in the cloud. Cluster Computing, 2019, 22, 829-838.	3.5	4
47	Protecting the application layer in the public domain with machine learning methods. Logic Journal of the IGPL, 2019, 27, 149-159.	1.3	5
48	Increasing product owners' cognition and decision-making capabilities by data analysis approach. Cognition, Technology and Work, 2019, 21, 191-200.	1.7	6
49	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
50	Recognizing Faults in Software Related Difficult Data. Lecture Notes in Computer Science, 2019, , 263-272.	1.0	3
51	The Identification and Creation of Ontologies for the Use in Law Enforcement AI Solutions – MAGNETO Platform Use Case. Lecture Notes in Computer Science, 2019, , 335-345.	1.0	2
52	Software Development Metrics Prediction Using Time Series Methods. Lecture Notes in Computer Science, 2019, , 311-323.	1.0	5
53	Data-Driven Elicitation of Quality Requirements in Agile Companies. Communications in Computer and Information Science, 2019, , 49-63.	0.4	9
54	Machine Learning Methods for Fake News Classification. Lecture Notes in Computer Science, 2019, , 332-339.	1.0	16

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55	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
56	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
57	Machine Learning Techniques for Threat Modeling and Detection. , 2018, , 179-192.		4
58	Distributing extreme learning machines with Apache Spark for NetFlow-based malware activity detection. Pattern Recognition Letters, 2018, 101, 14-20.	2.6	19
59	Hybrid Feature Extraction for Palmprint-Based User Authentication. , 2018, , .		2
60	Cost-Sensitive Distributed Machine Learning for NetFlow-Based Botnet Activity Detection. Security and Communication Networks, 2018, 2018, 1-8.	1.0	15
61	Pattern Recognition Solutions for Fake News Detection. Lecture Notes in Computer Science, 2018, , 130-139.	1.0	11
62	Recent Granular Computing Implementations and its Feasibility in Cybersecurity Domain. , 2018, , .		1
63	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
64	Running Sports Decision Aid Tool Based on Reinforcement Learning Approach. Advances in Intelligent Systems and Computing, 2018, , 160-169.	0.5	0
65	Simulation platform for cyber-security and vulnerability analysis of critical infrastructures. Journal of Computational Science, 2017, 22, 179-186.	1.5	46
66	Packets tokenization methods for web layer cyber security. Logic Journal of the IGPL, 2017, 25, 103-113.	1.3	8
67	Extreme Learning Machines for Web Layer Anomaly Detection. Advances in Intelligent Systems and Computing, 2017, , 226-233.	0.5	7
68	Distributed System for Botnet Traffic Analysis and Anomaly Detection. , 2017, , .		3
69	Data analysis tool supporting software development process. , 2017, , .		2
70	Pattern Extraction Algorithm for NetFlow-Based Botnet Activities Detection. Security and Communication Networks, 2017, 2017, 1-10.	1.0	10
71	The Concept of Applying Lifelong Learning Paradigm to Cybersecurity. Lecture Notes in Computer Science, 2017, , 663-671.	1.0	4
72	The overview of trends and challenges in mobile biometrics. Journal of Applied Mathematics and Computational Mechanics, 2017, 16, 173-185.	0.3	8

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73	Netflow-Based Malware Detection and Data Visualisation System. Lecture Notes in Computer Science, 2017, , 652-660.	1.0	0
74	Solution to Data Imbalance Problem in Application Layer Anomaly Detection Systems. Lecture Notes in Computer Science, 2016, , 441-450.	1.0	8
75	Evolutionaryâ€based packets classification for anomaly detection in web layer. Security and Communication Networks, 2016, 9, 2901-2910.	1.0	5
76	DWTâ€based anomaly detection method for cyber security of wireless sensor networks. Security and Communication Networks, 2016, 9, 2911-2922.	1.0	12
77	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
78	Emerging Cyber Security: Bio-inspired Techniques and MITM Detection in IoT. Advanced Sciences and Technologies for Security Applications, 2016, , 193-207.	0.4	3
79	Semi-unsupervised Machine Learning for Anomaly Detection in HTTP Traffic. Advances in Intelligent Systems and Computing, 2016, , 767-775.	0.5	5
80	Cyber Security of the Application Layer of Mission Critical Industrial Systems. Lecture Notes in Computer Science, 2016, , 342-351.	1.0	4
81	Cyber Threats Impacting Critical Infrastructures. Studies in Systems, Decision and Control, 2016, , 139-161.	0.8	10
82	Local Statistic Embedding for Malware Behaviour Modelling. Advances in Intelligent Systems and Computing, 2016, , 267-273.	0.5	0
83	Advanced services for critical infrastructures protection. Journal of Ambient Intelligence and Humanized Computing, 2015, 6, 783-795.	3.3	20
84	Adapting an Ensemble of One-Class Classifiers for a Web-Layer Anomaly Detection System. , 2015, , .		7
85	Machine learning techniques applied to detect cyber attacks on web applications. Logic Journal of the IGPL, 2015, 23, 45-56.	1.3	44
86	Comprehensive Approach to Increase Cyber Security and Resilience. , 2015, , .		11
87	Hardening Web Applications against SQL Injection Attacks Using Anomaly Detection Approach. Advances in Intelligent Systems and Computing, 2015, , 285-292.	0.5	1
88	A Practical Framework and Guidelines to Enhance Cyber Security and Privacy. Advances in Intelligent Systems and Computing, 2015, , 485-495.	0.5	10
89	Machine Learning Techniques for Cyber Attacks Detection. Advances in Intelligent Systems and Computing, 2014, , 391-398.	0.5	8
90	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

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91	Network Traffic Prediction and Anomaly Detection Based on ARFIMA Model. Advances in Intelligent Systems and Computing, 2014, , 545-554.	0.5	17
92	A Proposal of Algorithm for Web Applications Cyber Attack Detection. Lecture Notes in Computer Science, 2014, , 680-687.	1.0	15
93	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
94	A Simplified Visual Cortex Model for Efficient Image Codding and Object Recognition. Advances in Intelligent Systems and Computing, 2014, , 271-278.	0.5	1
95	Current cyber security threats and challenges in critical infrastructures protection. , 2013, , .		16
96	Evaluation of Various Techniques for SQL Injection Attack Detection. Advances in Intelligent Systems and Computing, 2013, , 753-762.	0.5	2
97	Online Social Networks: Emerging Security and Safety Applications. Advances in Intelligent Systems and Computing, 2013, , 291-302.	0.5	1
98	Correlation Approach for SQL Injection Attacks Detection. Advances in Intelligent Systems and Computing, 2013, , 177-185.	0.5	17
99	Information Exchange Mechanism between Federated Domains: P2P Approach. Advances in Intelligent Systems and Computing, 2013, , 187-196.	0.5	1
100	Computer Vision Method for Detecting Adult-Oriented Content in Images. Advances in Intelligent Systems and Computing, 2013, , 19-24.	0.5	1
101	Contactless palmprint and knuckle biometrics for mobile devices. Pattern Analysis and Applications, 2012, 15, 73-85.	3.1	61
102	Knuckle Recognition for Human Identification. Advances in Intelligent and Soft Computing, 2011, , 61-70.	0.2	3
103	Stereovision System for Visually Impaired. Advances in Intelligent and Soft Computing, 2011, , 459-468.	0.2	4
104	Network Event Correlation and Semantic Reasoning for Federated Networks Protection System. Communications in Computer and Information Science, 2011, , 48-54.	0.4	4
105	Improving Depth Map Quality with Markov Random Fields. Advances in Intelligent and Soft Computing, 2011, , 149-156.	0.2	4
106	Ontology Applied in Decision Support System for Critical Infrastructures Protection. Lecture Notes in Computer Science, 2010, , 671-680.	1.0	10
107	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
108	Knuckle Biometrics Based on Texture Features. , 2010, , .		14

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109	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
110	SMAS - Stereovision Mobility Aid System for People with a Vision Impairment. Advances in Intelligent and Soft Computing, 2010, , 315-322.	0.2	4
111	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
112	Feature Extraction Method for Contactless Palmprint Biometrics. Communications in Computer and Information Science, 2010, , 435-442.	0.4	2
113	Ontology-Based Decision Support for Security Management in Heterogeneous Networks. Lecture Notes in Computer Science, 2009, , 920-927.	1.0	6
114	Performance comparison of guard channel admission control schemes for IEEE 802.16 system with various turbo code FEC schemes. , 2009, , .		2
115	Evaluation of guard channel admission control schemes for IEEE 802.16 with integrated nb-LDPC codes. , 2009, , .		7
116	Recognizing Anomalies/Intrusions in Heterogeneous Networks. Advances in Intelligent and Soft Computing, 2009, , 577-584.	0.2	0
117	Palmprint Recognition Enhanced by the Shape Features. , 2008, , .		3
118	A Novel Shape-Texture Approach to Palmprint Detection and Identification. , 2008, , .		2