

Igor Saenko

List of Publications by Year in descending order

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53
papers

373
citations

1307366

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h-index

1199470

12
g-index

56
all docs

56
docs citations

56
times ranked

199
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural network approach to forecast the state of the Internet of Things elements. , 2015, , .		26
2	The Ontology of Metrics for Security Evaluation and Decision Support in SIEM Systems. , 2013, , .		21
3	An Approach to Detecting Cyber Attacks against Smart Power Grids Based on the Analysis of Network Traffic Self-Similarity. Energies, 2020, 13, 5031.	1.6	20
4	Genetic Algorithms for Role Mining Problem. , 2011, , .		19
5	Hierarchical fuzzy situational networks for online decision-making: Application to telecommunication systems. Knowledge-Based Systems, 2019, 185, 104935.	4.0	19
6	Improved genetic algorithms for solving the optimisation tasks for design of access control schemes in computer networks. International Journal of Bio-Inspired Computation, 2015, 7, 98.	0.6	18
7	The Ontological Approach for SIEM Data Repository Implementation. , 2012, , .		15
8	Design and Performance Evaluation of Improved Genetic Algorithm for Role Mining Problem. , 2012, , .		14
9	Abnormal traffic detection in networks of the Internet of things based on fuzzy logical inference. , 2015, , .		14
10	Countermeasure Security Risks Management in the Internet of Things Based on Fuzzy Logic Inference. , 2015, , .		14
11	Method of Early Detection of Cyber-Attacks on Telecommunication Networks Based on Traffic Analysis by Extreme Filtering. Energies, 2019, 12, 4768.	1.6	12
12	Machine Learning and Big Data Processing for Cybersecurity Data Analysis. Intelligent Systems Reference Library, 2020, , 61-85.	1.0	12
13	Parallel Processing of Big Heterogeneous Data for Security Monitoring of IoT Networks. , 2017, , .		11
14	Analytical modeling and assessment of cyber resilience on the base of stochastic networks conversion. , 2018, , .		10
15	Modeling the Impact of Cyber Attacks. , 2019, , 135-169.		10
16	Using Genetic Algorithms for Design and Reconfiguration of RBAC Schemes. , 2016, , .		10
17	Applying machine learning and parallel data processing for attack detection in IoT. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1642-1653.	3.2	9
18	Methodology for Management of the Protection System of Smart Power Supply Networks in the Context of Cyberattacks. Energies, 2021, 14, 5963.	1.6	9

#	ARTICLE	IF	CITATIONS
19	Design and Implementation of a Hybrid Ontological-Relational Data Repository for SIEM Systems. Future Internet, 2013, 5, 355-375.	2.4	7
20	An Approach to Aggregation of Security Events in Internet-of-Things Networks Based on Genetic Optimization. , 2016, , .		7
21	Parallelization of Security Event Correlation Based on Accounting of Event Type Links. , 2018, , .		7
22	Increasing the Sensitivity of the Method of Early Detection of Cyber-Attacks in Telecommunication Networks Based on Traffic Analysis by Extreme Filtering. Energies, 2020, 13, 2774.	1.6	7
23	Detection of traffic anomalies in multi-service networks based on a fuzzy logical inference. Studies in Computational Intelligence, 2017, , 79-88.	0.7	7
24	Access Control Visualization Using Triangular Matrices. , 2019, , .		6
25	Administrating role-based access control by genetic algorithms. , 2017, , .		5
26	A role-base approach and a genetic algorithm for VLAN design in large critical infrastructures. , 2019, , .		5
27	Genetic Optimization of Access Control Schemes in Virtual Local Area Networks. Lecture Notes in Computer Science, 2010, , 209-216.	1.0	4
28	The Genetic Approach for Design of Virtual Private Networks. , 2015, , .		4
29	Protection Against Information in eSociety: Using Data Mining Methods to Counteract Unwanted and Malicious Data. Communications in Computer and Information Science, 2017, , 170-184.	0.4	4
30	A technique for early detection of cyberattacks using the traffic self-similarity property and a statistical approach. , 2021, , .		4
31	Evaluating the Functioning Quality of Data Transmission Networks in the Context of Cyberattacks. Energies, 2021, 14, 4755.	1.6	4
32	Monitoring and Counteraction to Malicious Influences in the Information Space of Social Networks. Lecture Notes in Computer Science, 2018, , 159-167.	1.0	4
33	Ensuring the survivability of embedded computer networks based on early detection of cyber attacks by integrating fractal analysis and statistical methods. Microprocessors and Microsystems, 2022, 90, 104459.	1.8	4
34	Reconfiguration of RBAC schemes by genetic algorithms. Studies in Computational Intelligence, 2017, , 89-98.	0.7	3
35	Genetic Algorithms for Solving Problems of Access Control Design and Reconfiguration in Computer Networks. ACM Transactions on Internet Technology, 2018, 18, 1-21.	3.0	3
36	Applying Intelligent Agents for Anomaly Detection of Network Traffic in Internet of Things Networks. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
37	Genetic algorithms for role mining in critical infrastructure data spaces. , 2018, , .		2
38	An Approach to Modeling of the Security System of Intelligent Transport Systems Based on the Use of Flat Graphs. Lecture Notes in Networks and Systems, 2022, , 440-451.	0.5	2
39	Application of Hybrid Neural Networks for Monitoring and Forecasting Computer Networks States. Lecture Notes in Computer Science, 2016, , 521-530.	1.0	2
40	Assessment of Computer Network Resilience Under Impact of Cyber Attacks on the Basis of Stochastic Networks Conversion. Communications in Computer and Information Science, 2018, , 107-117.	0.4	2
41	Intelligent support for network administrator decisions based on combined neural networks. , 2020, , .		2
42	Increasing the Reliability of Computer Network Protection System by Analyzing its Controllability Models. , 2021, , .		1
43	Fuzzy Adaptive Routing in Multi-service Computer Networks under Cyber Attack Implementation. Advances in Intelligent Systems and Computing, 2018, , 215-225.	0.5	1
44	The Technique of Multi-aspect Evaluation and Categorization of Malicious Information Objects on the Internet. Proceedings of Telecommunication Universities, 2019, 5, 58-65.	0.1	1
45	Model and method for diagnosing computer incidents in information and communication systems based on deep machine learning. Informatsionno-Upravliaiushchie Sistemy, 2019, , 32-42.	0.3	1
46	Towards Resilient and Efficient Big Data Storage: Evaluating a SIEM Repository Based on HDFS. , 2022, , .		1
47	Detecting Anomalous Behavior of Users of Data Centers Based on the Application of Artificial Neural Networks. Lecture Notes in Computer Science, 2021, , 331-342.	1.0	0
48	Logical Inference Framework for Security Management in Geographical Information Systems. Lecture Notes in Geoinformation and Cartography, 2014, , 203-218.	0.5	0
49	Evolutionary Algorithms for Design of Virtual Private Networks. Studies in Computational Intelligence, 2018, , 287-297.	0.7	0
50	Applying Fuzzy Computing Methods for On-line Monitoring of New Generation Network Elements. Advances in Intelligent Systems and Computing, 2019, , 331-340.	0.5	0
51	A Model Checking Based Approach for Verification of Attribute-Based Access Control Policies in Cloud Infrastructures. Advances in Intelligent Systems and Computing, 2020, , 165-175.	0.5	0
52	Combined Neural Network for Assessing the State of Computer Network Elements. Studies in Computational Intelligence, 2021, , 256-261.	0.7	0
53	Situational Control of a Computer Network Security System in Conditions of Cyber Attacks. , 2021, , .		0