

# Igor Saenko

## List of Publications by Year in descending order

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53  
papers

373  
citations

1307366

7  
h-index

1199470

12  
g-index

56  
all docs

56  
docs citations

56  
times ranked

199  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Towards Resilient and Efficient Big Data Storage: Evaluating a SIEM Repository Based on HDFS. , 2022, , .		1
4	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
5	A technique for early detection of cyberattacks using the traffic self-similarity property and a statistical approach. , 2021, , .		4
6	Evaluating the Functioning Quality of Data Transmission Networks in the Context of Cyberattacks. Energies, 2021, 14, 4755.	1.6	4
7	Increasing the Reliability of Computer Network Protection System by Analyzing its Controllability Models. , 2021, , .		1
8	Methodology for Management of the Protection System of Smart Power Supply Networks in the Context of Cyberattacks. Energies, 2021, 14, 5963.	1.6	9
9	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
10	Combined Neural Network for Assessing the State of Computer Network Elements. Studies in Computational Intelligence, 2021, , 256-261.	0.7	0
11	Situational Control of a Computer Network Security System in Conditions of Cyber Attacks. , 2021, , .		0
12	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
13	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
14	Machine Learning and Big Data Processing for Cybersecurity Data Analysis. Intelligent Systems Reference Library, 2020, , 61-85.	1.0	12
15	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
16	Intelligent support for network administrator decisions based on combined neural networks. , 2020, , .		2
17	Modeling the Impact of Cyber Attacks. , 2019, , 135-169.		10
18	Hierarchical fuzzy situational networks for online decision-making: Application to telecommunication systems. Knowledge-Based Systems, 2019, 185, 104935.	4.0	19

#	ARTICLE	IF	CITATIONS
19	A role-base approach and a genetic algorithm for VLAN design in large critical infrastructures. , 2019, , .		5
20	Access Control Visualization Using Triangular Matrices. , 2019, , .		6
21	Method of Early Detection of Cyber-Attacks on Telecommunication Networks Based on Traffic Analysis by Extreme Filtering. Energies, 2019, 12, 4768.	1.6	12
22	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
23	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
24	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
25	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
26	Applying Intelligent Agents for Anomaly Detection of Network Traffic in Internet of Things Networks. , 2018, , .		3
27	Analytical modeling and assessment of cyber resilience on the base of stochastic networks conversion. , 2018, , .		10
28	Parallelization of Security Event Correlation Based on Accounting of Event Type Links. , 2018, , .		7
29	Genetic algorithms for role mining in critical infrastructure data spaces. , 2018, , .		2
30	Fuzzy Adaptive Routing in Multi-service Computer Networks under Cyber Attack Implementation. Advances in Intelligent Systems and Computing, 2018, , 215-225.	0.5	1
31	Evolutionary Algorithms for Design of Virtual Private Networks. Studies in Computational Intelligence, 2018, , 287-297.	0.7	0
32	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
33	Monitoring and Counteraction to Malicious Influences in the Information Space of Social Networks. Lecture Notes in Computer Science, 2018, , 159-167.	1.0	4
34	Parallel Processing of Big Heterogeneous Data for Security Monitoring of IoT Networks. , 2017, , .		11
35	Administrating role-based access control by genetic algorithms. , 2017, , .		5
36	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

#	ARTICLE	IF	CITATIONS
37	Reconfiguration of RBAC schemes by genetic algorithms. Studies in Computational Intelligence, 2017, , 89-98.	0.7	3
38	Detection of traffic anomalies in multi-service networks based on a fuzzy logical inference. Studies in Computational Intelligence, 2017, , 79-88.	0.7	7
39	An Approach to Aggregation of Security Events in Internet-of-Things Networks Based on Genetic Optimization. , 2016, , .		7
40	Using Genetic Algorithms for Design and Reconfiguration of RBAC Schemes. , 2016, , .		10
41	Application of Hybrid Neural Networks for Monitoring and Forecasting Computer Networks States. Lecture Notes in Computer Science, 2016, , 521-530.	1.0	2
42	Abnormal traffic detection in networks of the Internet of things based on fuzzy logical inference. , 2015, , .		14
43	Countermeasure Security Risks Management in the Internet of Things Based on Fuzzy Logic Inference. , 2015, , .		14
44	The Genetic Approach for Design of Virtual Private Networks. , 2015, , .		4
45	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
46	Neural network approach to forecast the state of the Internet of Things elements. , 2015, , .		26
47	Logical Inference Framework for Security Management in Geographical Information Systems. Lecture Notes in Geoinformation and Cartography, 2014, , 203-218.	0.5	0
48	The Ontology of Metrics for Security Evaluation and Decision Support in SIEM Systems. , 2013, , .		21
49	Design and Implementation of a Hybrid Ontological-Relational Data Repository for SIEM Systems. Future Internet, 2013, 5, 355-375.	2.4	7
50	The Ontological Approach for SIEM Data Repository Implementation. , 2012, , .		15
51	Design and Performance Evaluation of Improved Genetic Algorithm for Role Mining Problem. , 2012, , .		14
52	Genetic Algorithms for Role Mining Problem. , 2011, , .		19
53	Genetic Optimization of Access Control Schemes in Virtual Local Area Networks. Lecture Notes in Computer Science, 2010, , 209-216.	1.0	4