

Mario Lemes Proença

List of Publications by Year in descending order

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66
papers

1,423
citations

430843

18
h-index

414395

32
g-index

66
all docs

66
docs citations

66
times ranked

1126
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive survey on network anomaly detection. Telecommunication Systems, 2019, 70, 447-489.	2.5	184
2	Network Anomaly Detection System using Genetic Algorithm and Fuzzy Logic. Expert Systems With Applications, 2018, 92, 390-402.	7.6	183
3	Long Short-Term Memory and Fuzzy Logic for Anomaly Detection and Mitigation in Software-Defined Network Environment. IEEE Access, 2020, 8, 83765-83781.	4.2	74
4	Near real-time security system applied to SDN environments in IoT networks using convolutional neural network. Computers and Electrical Engineering, 2020, 86, 106738.	4.8	72
5	A GRU deep learning system against attacks in software defined networks. Journal of Network and Computer Applications, 2021, 177, 102942.	9.1	68
6	Adversarial Deep Learning approach detection and defense against DDoS attacks in SDN environments. Future Generation Computer Systems, 2021, 125, 156-167.	7.5	66
7	Network anomaly detection using IP flows with Principal Component Analysis and Ant Colony Optimization. Journal of Network and Computer Applications, 2016, 64, 1-11.	9.1	58
8	A Game Theoretical Based System Using Holt-Winters and Genetic Algorithm With Fuzzy Logic for DoS/DDoS Mitigation on SDN Networks. IEEE Access, 2017, 5, 9485-9496.	4.2	54
9	An ecosystem for anomaly detection and mitigation in software-defined networking. Expert Systems With Applications, 2018, 104, 121-133.	7.6	53
10	Autonomous profile-based anomaly detection system using principal component analysis and flow analysis. Applied Soft Computing Journal, 2015, 34, 513-525.	7.2	40
11	A mobile health monitoring solution for weight control. , 2011, , .		33
12	Account classification in online social networks with LBCA and wavelets. Information Sciences, 2016, 332, 72-83.	6.9	33
13	Anomaly Detection Using Forecasting Methods ARIMA and HWDS. , 2013, , .		29
14	Fast Defense System Against Attacks in Software Defined Networks. IEEE Access, 2018, 6, 69620-69639.	4.2	26
15	Deep IP flow inspection to detect beyond network anomalies. Computer Communications, 2017, 98, 80-96.	5.1	25
16	Artificial Immune Systems and Fuzzy Logic to Detect Flooding Attacks in Software-Defined Networks. IEEE Access, 2020, 8, 100172-100184.	4.2	25
17	Unsupervised learning clustering and self-organized agents applied to help network management. Expert Systems With Applications, 2016, 54, 29-47.	7.6	23
18	A seven-dimensional flow analysis to help autonomous network management. Information Sciences, 2014, 278, 900-913.	6.9	22

#	ARTICLE	IF	CITATIONS
19	Anomaly detection using the correlational paraconsistent machine with digital signatures of network segment. Information Sciences, 2017, 420, 313-328.	6.9	22
20	Machine learning-based models for spectrum sensing in cooperative radio networks. IET Communications, 2020, 14, 3102-3109.	2.2	19
21	Hybrid heuristic-waterfilling game theory approach in MC-CDMA resource allocation. Applied Soft Computing Journal, 2012, 12, 1902-1912.	7.2	17
22	Holt-Winters statistical forecasting and ACO metaheuristic for traffic characterization. , 2013, , .		17
23	Anomaly detection using digital signature of network segment with adaptive ARIMA model and Paraconsistent Logic. , 2014, , .		17
24	Anomaly detection using DSNS and Firefly Harmonic Clustering Algorithm. , 2012, , .		15
25	Anomaly Detection Aiming Pro-Active Management of Computer Network Based on Digital Signature of Network Segment. Journal of Network and Systems Management, 2007, 15, 267-283.	4.9	14
26	A mobile health application for outpatients medication management. , 2013, , .		14
27	Anomaly detection for network servers using digital signature of network segment. , 2005, , .		12
28	Inference of network anomaly propagation using spatio-temporal correlation. Journal of Network and Computer Applications, 2012, 35, 1781-1792.	9.1	12
29	A mobile health application for falls detection and biofeedback monitoring. , 2013, , .		11
30	Digital signature of network segment for healthcare environments support. Irbm, 2014, 35, 299-309.	5.6	11
31	Detection of Human, Legitimate Bot, and Malicious Bot in Online Social Networks Based on Wavelets. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-17.	4.3	11
32	Wavelet against random forest for anomaly mitigation in software-defined networking. Applied Soft Computing Journal, 2019, 80, 138-153.	7.2	11
33	Parameterized Anomaly Detection System with Automatic Configuration. , 2009, , .		10
34	A novel anomaly detection system based on seven-dimensional flow analysis. , 2013, , .		10
35	A novel anomaly detection system to assist network management in SDN environment. , 2017, , .		10
36	Network Management and Monitoring Solutions for Vehicular Networks: A Survey. Electronics (Switzerland), 2020, 9, 853.	3.1	10

#	ARTICLE	IF	CITATIONS
37	Networking Anomaly Detection Using DSNs and Particle Swarm Optimization with Re-Clustering. , 2010, , .		9
38	MobiCoop. ACM Transactions on Multimedia Computing, Communications and Applications, 2016, 12, 1-23.	4.3	9
39	ACO and GA metaheuristics for anomaly detection. , 2015, , .		8
40	Baseline to help with network management. , 2006, , 158-166.		8
41	Multiple Access Network Optimization Aspects via Swarm Search Algorithms. , 2011, , .		7
42	Digital signature to help network management using flow analysis. International Journal of Network Management, 2016, 26, 76-94.	2.2	7
43	Power Allocation in Multirate DS/CDMA Systems Based on Verhulst Equilibrium. , 2010, , .		6
44	Scorpius: sFlow Network Anomaly Simulator. Journal of Computer Science, 2015, 11, 662-674.	0.6	6
45	Unsupervised online anomaly detection in Software Defined Network environments. Expert Systems With Applications, 2022, 191, 116225.	7.6	6
46	Using Ant Colony Optimization metaheuristic and Dynamic Time Warping for anomaly detection. , 2013, , .		5
47	Digital signature to help network management using principal component analysis and K-means clustering. , 2013, , .		5
48	Correlational paraconsistent machine for anomaly detection. , 2014, , .		5
49	Anomaly Detection Using Metaheuristic Firefly Harmonic Clustering. Journal of Networks, 2013, 8, .	0.4	5
50	Time Series Forecasting Methods for Creating Digital Signature of Network Segments Using Flow Analysis. , 2012, , .		4
51	E-learning solutions for cloud environments. , 2012, , .		4
52	Improved weighted average consensus in distributed cooperative spectrum sensing networks. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3259.	3.9	4
53	Moni4VDTN: A monitoring system for vehicular delay-tolerant networks. , 2012, , .		3
54	Statistical, forecasting and metaheuristic techniques for network anomaly detection. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
55	Digital Signature of Network Segment Using Flow Analysis through Genetic Algorithm and ACO Metaheuristics. , 2014, , .		2
56	A Gated Recurrent Unit Deep Learning Model to Detect and Mitigate Distributed Denial of Service and Portscan Attacks. IEEE Access, 2022, 10, 73229-73242.	4.2	2
57	Ant Colony Optimization for Creating Digital Signature of Network Segments Using Flow Analysis. , 2012, , .		1
58	A hybrid approach for anomaly detection on large-scale networks using HWDS and entropy. , 2013, , .		1
59	Network Anomaly Detection by IP Flow Graph Analysis: A DDoS Attack Case Study. , 2013, , .		1
60	Firefly Algorithm in Telecommunications. , 2015, , 43-72.		1
61	Anomaly Detection Using DSNS and a Dependency Graph for SNMP Objects. , 2008, , .		0
62	Dependency graph to improve notifications’ semantic on anomaly detection. , 2008, , .		0
63	Power-Rate Allocation in DS/CDMA Systems Based on Discretized Verhulst Equilibrium. IEEE Latin America Transactions, 2011, 9, 681-689.	1.6	0
64	Digital Signature of Network Segment using PCA, ACO and Holt-Winters for network management. , 2013, , .		0
65	Improved MB Cognitive Radio Spectrum Sensing Using Wavelet Spectrum Filtering. Journal of Circuits, Systems and Computers, 2019, 28, 1950136.	1.5	0
66	Redes de ComunicaçãŁo Sem Fio Cooperativas: Protocolos, Topologias e Desempenho. Semina: Ciências Exatas E TecnolĂ³gicas, 2011, 32, 167-180.	0.1	0