

Ayse Nur Zincir-Heywood

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

866
citations

759055

12
h-index

610775

24
g-index

68
all docs

68
docs citations

68
times ranked

533
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring syntactical features for anomaly detection in application logs. IT - Information Technology, 2022, 64, 15-27.	0.6	2
2	BoostGuard: Interpretable Misbehavior Detection in Vehicular Communication Networks. , 2022, , .		5
3	Exploring anomalous behaviour detection and classification for insider threat identification. International Journal of Network Management, 2021, 31, e2109.	1.4	18
4	CNSM 2019 special issue: Embracing the new wave of artificial intelligence. International Journal of Network Management, 2021, 31, e2149.	1.4	0
5	Guest Editorial: Special Issue on Data Analytics and Machine Learning for Network and Service Managementâ€™Part II. IEEE Transactions on Network and Service Management, 2021, 18, 775-779.	3.2	3
6	Training regime influences to semi-supervised learning for insider threat detection. , 2021, , .		4
7	Anomaly Detection for Insider Threats Using Unsupervised Ensembles. IEEE Transactions on Network and Service Management, 2021, 18, 1152-1164.	3.2	42
8	Network Flow Entropy for Identifying Malicious Behaviours in DNS Tunnels. , 2021, , .		7
9	Log Abstraction for Information Security: Heuristics and Reproducibility. , 2021, , .		5
10	Analyzing COVID-19 Tweets using Health Behaviour Theories and Machine Learning. , 2021, , .		1
11	Guest Editorial: Special Section on Embracing Artificial Intelligence for Network and Service Management. IEEE Transactions on Network and Service Management, 2021, 18, 3936-3941.	3.2	4
12	Exploring Adversarial Properties of Insider Threat Detection. , 2020, , .		11
13	Guest Editorial: Special Section on Data Analytics and Machine Learning for Network and Service Managementâ€™Part I. IEEE Transactions on Network and Service Management, 2020, 17, 1971-1974.	3.2	4
14	Analyzing Data Granularity Levels for Insider Threat Detection Using Machine Learning. IEEE Transactions on Network and Service Management, 2020, 17, 30-44.	3.2	75
15	A Frontier: Dependable, Reliable and Secure Machine Learning for Network/System Management. Journal of Network and Systems Management, 2020, 28, 827-849.	3.3	15
16	Exploring Tunneling Behaviours in Malicious Domains With Self-Organizing Maps. , 2020, , .		1
17	Guest Editorial: Special Issue on Novel Techniques in Big Data Analytics for Management. IEEE Transactions on Network and Service Management, 2019, 16, 797-799.	3.2	6
18	Exploring NAT Detection and Host Identification Using Machine Learning. , 2019, , .		8

#	ARTICLE	IF	CITATIONS
19	Learning From Evolving Network Data for Dependable Botnet Detection. , 2019, , .		2
20	Exploring Feature Normalization and Temporal Information for Machine Learning Based Insider Threat Detection. , 2019, , .		28
21	User identification via neural network based language models. International Journal of Network Management, 2019, 29, e2049.	1.4	6
22	Guest Editorial: Special Section on Advances in Big Data Analytics for Management. IEEE Transactions on Network and Service Management, 2018, 15, 10-12.	3.2	7
23	On botnet detection with genetic programming under streaming data label budgets and class imbalance. Swarm and Evolutionary Computation, 2018, 39, 123-140.	4.5	36
24	An Artificial Arms Race: Could it Improve Mobile Malware Detectors?. , 2018, , .		11
25	Big Data in Network Anomaly Detection. , 2018, , 1-9.		4
26	Botnet behaviour analysis: How would a data analyticsâ€based system with minimum a priori information perform?. International Journal of Network Management, 2017, 27, e1977.	1.4	10
27	Big data analytics for network and service management. International Journal of Network Management, 2017, 27, e1974.	1.4	1
28	Return-oriented programme evolution with ROPER. , 2017, , .		6
29	Evolutionary computation in network management and security. , 2017, , .		0
30	Women@GECCO 2016 Chairs' Welcome. , 2016, , .		0
31	Initiating a Moving Target Network Defense with a Real-time Neuro-evolutionary Detector. , 2016, , .		6
32	On the Impact of Class Imbalance in GP Streaming Classification with Label Budgets. Lecture Notes in Computer Science, 2016, , 35-50.	1.0	3
33	How Robust Can a Machine Learning Approach Be for Classifying Encrypted VoIP?. Journal of Network and Systems Management, 2015, 23, 830-869.	3.3	15
34	Identification of VoIP encrypted traffic using a machine learning approach. Journal of King Saud University - Computer and Information Sciences, 2015, 27, 77-92.	2.7	33
35	Benchmarking Stream Clustering for Churn Detection in Dynamic Networks. Lecture Notes in Computer Science, 2015, , 284-298.	1.0	1
36	Label free change detection on streaming data with cooperative multi-objective genetic programming. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
37	GP under streaming data constraints. , 2012, , .		10
38	Can encrypted traffic be identified without port numbers, IP addresses and payload inspection?. Computer Networks, 2011, 55, 1326-1350.	3.2	110
39	Robust learning intrusion detection for attacks on wireless networks. Intelligent Data Analysis, 2011, 15, 801-823.	0.4	4
40	Can a good offense be a good defense? Vulnerability testing of anomaly detectors through an artificial arms race. Applied Soft Computing Journal, 2011, 11, 4366-4383.	4.1	16
41	Evolutionary computation as an artificial attacker: generating evasion attacks for detector vulnerability testing. Evolutionary Intelligence, 2011, 4, 243-266.	2.3	13
42	Multi-document summarization of scientific corpora. , 2011, , .		9
43	Bottom-up evolutionary subspace clustering. , 2010, , .		11
44	Using Code Bloat to Obfuscate Evolved Network Traffic. Lecture Notes in Computer Science, 2010, , 101-110.	1.0	4
45	Optimizing anomaly detector deployment under evolutionary black-box vulnerability testing. , 2009, , .		2
46	Generalization of signatures for SSH encrypted traffic identification. , 2009, , .		19
47	Evolving TCP/IP packets: A case study of port scans. , 2009, , .		6
48	Adaptability of a GP Based IDS on Wireless Networks. , 2008, , .		2
49	NetPal. , 2008, , .		3
50	A Preliminary Investigation of Skype Traffic Classification Using a Minimalist Feature Set. , 2008, , .		13
51	Incorporating Temporal Information for Document Classification. , 2007, , .		1
52	Adding more intelligence to the network routing problem: AntNet and Ga-agents. Applied Soft Computing Journal, 2006, 6, 244-257.	4.1	13
53	On evolving buffer overflow attacks using genetic programming. , 2006, , .		20
54	Post-Supervised Template Induction for Information Extraction from Lists and Tables in Dynamic Web Sources. Journal of Intelligent Information Systems, 2005, 25, 69-93.	2.8	2

#	ARTICLE	IF	CITATIONS
55	Speeding up the Self-Organizing Feature Map Using Dynamic Subset Selection. Neural Processing Letters, 2005, 22, 17-32.	2.0	8
56	Narrative text classification for automatic key phrase extraction in web document corpora. , 2005, , .		45
57	Analysis of Three Intrusion Detection System Benchmark Datasets Using Machine Learning Algorithms. Lecture Notes in Computer Science, 2005, , 362-367.	1.0	12
58	Training Genetic Programming on Half a Million Patterns: An Example From Anomaly Detection. IEEE Transactions on Evolutionary Computation, 2005, 9, 225-239.	7.5	122
59	A heuristic approach to network optimised mapping of a distributed resource discovery architecture. International Journal of Computer Applications in Technology, 2004, 19, 43.	0.3	0
60	Summarizing Web Sites Automatically. Lecture Notes in Computer Science, 2003, , 283-296.	1.0	7
61	Post-supervised Template Induction for Dynamic Web Sources. Lecture Notes in Computer Science, 2003, , 268-282.	1.0	0
62	Object-orientated design of digital library platforms for multiagent environments. IEEE Transactions on Knowledge and Data Engineering, 2002, 14, 281-295.	4.0	2
63	Digital library query clearing using clustering and fuzzy decision-making. Information Processing and Management, 2000, 36, 571-583.	5.4	4
64	From search enginesâ€™ view point: Web pages designed in Turkey. Information Technology for Development, 2000, 9, 13-23.	2.7	0