

Alvaro Herrero

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

804
citations

15
h-index

24
g-index

148
ext. papers

916
ext. citations

1.7
avg, IF

4.57
L-index

#	Paper	IF	Citations
115	Neural visualization of network traffic data for intrusion detection. <i>Applied Soft Computing Journal</i> , 2011 , 11, 2042-2056	7.5	130
114	idMAS-SQL: Intrusion Detection Based on MAS to Detect and Block SQL injection through data mining. <i>Information Sciences</i> , 2013 , 231, 15-31	7.7	43
113	Features and models for human activity recognition. <i>Neurocomputing</i> , 2015 , 167, 52-60	5.4	42
112	MOVIH-IDS: A mobile-visualization hybrid intrusion detection system. <i>Neurocomputing</i> , 2009 , 72, 2775-2784	5.4	39
111	Gaining deep knowledge of Android malware families through dimensionality reduction techniques. <i>Logic Journal of the IGPL</i> , 2019 , 27, 160-176	1	31
110	RT-MOVICAB-IDS: Addressing real-time intrusion detection. <i>Future Generation Computer Systems</i> , 2013 , 29, 250-261	7.5	30
109	DIPKIP: A CONNECTIONIST KNOWLEDGE MANAGEMENT SYSTEM TO IDENTIFY KNOWLEDGE DEFICITS IN PRACTICAL CASES. <i>Computational Intelligence</i> , 2010 , 26, 26-56	2.5	29
108	A neural-visualization IDS for honeynet data. <i>International Journal of Neural Systems</i> , 2012 , 22, 1250005	6.2	29
107	Neural projection techniques for the visual inspection of network traffic. <i>Neurocomputing</i> , 2009 , 72, 3649-3658	5.27	27
106	Advanced Machine Learning techniques for fake news (online disinformation) detection: A systematic mapping study. <i>Applied Soft Computing Journal</i> , 2021 , 101, 107050	7.5	22
105	VISUALIZATION AND CLUSTERING FOR SNMP INTRUSION DETECTION. <i>Cybernetics and Systems</i> , 2013 , 44, 505-532	1.9	18
104	A Hybrid Intelligent System to forecast solar energy production. <i>Computers and Electrical Engineering</i> , 2019 , 78, 373-387	4.3	17
103	Neural Analysis of HTTP Traffic for Web Attack Detection. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 201-212	0.4	15
102	Neural Models for Imputation of Missing Ozone Data in Air-Quality Datasets. <i>Complexity</i> , 2018 , 2018, 1-14	1.6	15
101	Hybrid Unsupervised Exploratory Plots: A Case Study of Analysing Foreign Direct Investment. <i>Complexity</i> , 2019 , 2019, 1-14	1.6	15
100	Unsupervised neural models for country and political risk analysis. <i>Expert Systems With Applications</i> , 2011 , 38, 13641-13641	7.8	14
99	Hybrid Multi Agent-Neural Network Intrusion Detection with Mobile Visualization. <i>Advances in Intelligent and Soft Computing</i> , 2007 , 320-328		14

98	Analysis of meteorological conditions in Spain by means of clustering techniques. <i>Journal of Applied Logic</i> , 2017 , 24, 76-89		13
97	The Socio-educational, Psychological and Family-Related Antecedents of Entrepreneurial Intentions among Spanish Youth. <i>Sustainability</i> , 2019 , 11, 1252	3.6	13
96	AIIDA-SQL: An Adaptive Intelligent Intrusion Detector Agent for detecting SQL Injection attacks 2010 ,		13
95	Detecting Compounded Anomalous SNMP Situations Using Cooperative Unsupervised Pattern Recognition. <i>Lecture Notes in Computer Science</i> , 2005 , 905-910	0.9	12
94	Selecting Features that Drive Internationalization of Spanish Firms. <i>Cybernetics and Systems</i> , 2019 , 50, 25-39	1.9	10
93	MOVICAB-IDS: Visual Analysis of Network Traffic Data Streams for Intrusion Detection. <i>Lecture Notes in Computer Science</i> , 2006 , 1424-1433	0.9	10
92	Multiagent Systems for Network Intrusion Detection: A Review. <i>Advances in Intelligent and Soft Computing</i> , 2009 , 143-154		8
91	A Decision-Making Tool Based on Exploratory Visualization for the Automotive Industry. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4355	2.6	7
90	A hybrid proposal for cross-sectoral analysis of knowledge management. <i>Soft Computing</i> , 2016 , 20, 4271-4285	3.9	7
89	Delving into Android Malware Families with a Novel Neural Projection Method. <i>Complexity</i> , 2019 , 2019, 1-10	1.6	7
88	Key features for the characterization of Android malware families. <i>Logic Journal of the IGPL</i> , 2017 , 25, 54-66	1	7
87	CBRid4SQL: A CBR Intrusion Detector for SQL Injection Attacks. <i>Lecture Notes in Computer Science</i> , 2010 , 510-519	0.9	7
86	Neural Visualization of Android Malware Families. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 574-583	0.4	6
85	Clustering extension of MOVICAB-IDS to distinguish intrusions in flow-based data. <i>Logic Journal of the IGPL</i> , 2017 , 25, 83-102	1	6
84	Mutating network scans for the assessment of supervised classifier ensembles. <i>Logic Journal of the IGPL</i> , 2013 , 21, 630-647	1	6
83	The Association of Parental Interest in Entrepreneurship with the Entrepreneurial Interest of Spanish Youth. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	6
82	Testing CAB-IDS Through Mutations: On the Identification of Network Scans. <i>Lecture Notes in Computer Science</i> , 2006 , 433-441	0.9	6
81	Intrusion Detection with Unsupervised Techniques for Network Management Protocols over Smart Grids. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2276	2.6	5

80	Entrepreneurial Interest and Entrepreneurial Competence Among Spanish Youth: An Analysis with Artificial Neural Networks. <i>Sustainability</i> , 2020 , 12, 1351	3.6	5
79	A hybrid intelligent system for the analysis of atmospheric pollution: a case study in two European regions. <i>Logic Journal of the IGPL</i> , 2017 , 25, 915-937	1	5
78	Mining Network Traffic Data for Attacks through MOVICAB-IDS. <i>Studies in Computational Intelligence</i> , 2009 , 377-394	0.8	5
77	Improving the detection of robot anomalies by handling data irregularities. <i>Neurocomputing</i> , 2020 ,	5.4	5
76	Analysing the intermeshed patterns of road transportation and macroeconomic indicators through neural and clustering techniques. <i>Pattern Analysis and Applications</i> , 2020 , 23, 1059-1070	2.3	4
75	Traffic Data Preparation for a Hybrid Network IDS. <i>Lecture Notes in Computer Science</i> , 2008 , 247-256	0.9	4
74	Analyzing Key Factors of Human Resources Management. <i>Lecture Notes in Computer Science</i> , 2011 , 463-473		4
73	Clustering extension of MOVICAB-IDS to identify SNMP community searches. <i>Logic Journal of the IGPL</i> , 2015 , 23, 121-140	1	3
72	Easing knowledge management in the power sector by means of a neuro-genetic system. <i>International Journal of Bio-Inspired Computation</i> , 2015 , 7, 170	2.9	3
71	Auto-Associative Neural Techniques for Intrusion Detection Systems 2007 ,		3
70	One-Class Classification to Predict the Success of Private-Participation Infrastructure Projects in Europe. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 443-451	0.4	3
69	A Comparison of Neural Projection Techniques Applied to Intrusion Detection Systems 2007 , 1138-1146		3
68	Mobile Hybrid Intrusion Detection. <i>Studies in Computational Intelligence</i> , 2011 ,	0.8	3
67	Contacting the Devices: A Review of Communication Protocols. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 3-10		3
66	Data Selection to Improve Anomaly Detection in a Component-Based Robot. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 241-250	0.4	3
65	An Unsupervised Cooperative Pattern Recognition Model to Identify Anomalous Massive SNMP Data Sending. <i>Lecture Notes in Computer Science</i> , 2005 , 778-782	0.9	3
64	Intrusion Detection System Based on a Cooperative Topology Preserving Method 2005 , 454-457		3
63	Soft computing applications in the field of industrial and environmental enterprises. <i>Expert Systems</i> , 2019 , 36, e12456	2.1	2

62	International Joint Conference SOCO13-CISIS13-ICEUTE13. <i>Advances in Intelligent Systems and Computing, 2014,</i>	0.4	2
61	Characterization of Android Malware Families by a Reduced Set of Static Features. <i>Advances in Intelligent Systems and Computing, 2017, 607-617</i>	0.4	2
60	On the Selection of Key Features for Android Malware Characterization. <i>Advances in Intelligent Systems and Computing, 2015, 167-176</i>	0.4	2
59	10th International Conference on Soft Computing Models in Industrial and Environmental Applications. <i>Advances in Intelligent Systems and Computing, 2015,</i>	0.4	2
58	A Distributed Hierarchical Multi-agent Architecture for Detecting Injections in SQL Queries. <i>Advances in Intelligent and Soft Computing, 2010, 51-59</i>		2
57	Hybrid Artificial Intelligence Systems. <i>Lecture Notes in Computer Science, 2009,</i>	0.9	2
56	Humidity forecasting in a potato plantation using time-series neural models. <i>Journal of Computational Science, 2022, 59, 101547</i>	3.4	2
55	Intrusion Detection at Packet Level by Unsupervised Architectures 2007, 718-727		2
54	Neural Models to Predict Irrigation Needs of a Potato Plantation. <i>Advances in Intelligent Systems and Computing, 2021, 600-613</i>	0.4	2
53	Classification of SSH Anomalous Connections. <i>Advances in Intelligent Systems and Computing, 2014, 479-488</i>	0.4	2
52	Visualization of Misuse-Based Intrusion Detection: Application to HoneyNet Data. <i>Advances in Intelligent and Soft Computing, 2011, 561-570</i>		2
51	Identification of Anomalous SNMP Situations Using a Cooperative Connectionist Exploratory Projection Pursuit Model. <i>Lecture Notes in Computer Science, 2005, 187-194</i>	0.9	2
50	Self-Assessment Web Tool for Java Programming. <i>Advances in Intelligent Systems and Computing, 2015, 583-592</i>	0.4	1
49	A Preliminary Cooperative Genetic Fuzzy Proposal for Epilepsy Identification Using Wearable Devices. <i>Advances in Intelligent Systems and Computing, 2015, 49-63</i>	0.4	1
48	Time Analysis of Air Pollution in a Spanish Region Through k-means. <i>Advances in Intelligent Systems and Computing, 2017, 63-72</i>	0.4	1
47	Visual analysis of nurse rostering solutions through a bio-inspired intelligent model 2011,		1
46	An Intelligent Visualisation Tool to Analyse the Sustainability of Road Transportation. <i>Sustainability, 2022, 14, 777</i>	3.6	1
45	Data Balancing to Improve Prediction of Project Success in the Telecom Sector. <i>Advances in Intelligent Systems and Computing, 2021, 366-373</i>	0.4	1

44	Beta-Hebbian Learning for Visualizing Intrusions in Flows. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 446-459	0.4	1
43	Neuro-Fuzzy Analysis of Atmospheric Pollution. <i>Lecture Notes in Computer Science</i> , 2015 , 382-392	0.9	1
42	Analysis of Knowledge Management in Industrial Sectors by Means of Neural Models. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 65-75	0.4	1
41	A SMOTE Extension for Balancing Multivariate Epilepsy-Related Time Series Datasets. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 439-448	0.4	1
40	Understanding Honeypot Data by an Unsupervised Neural Visualization. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 151-160		1
39	Testing Ensembles for Intrusion Detection: On the Identification of Mutated Network Scans. <i>Lecture Notes in Computer Science</i> , 2011 , 109-117	0.9	1
38	Hybrid Visualization for Deep Insight into Knowledge Retention in Firms. <i>Lecture Notes in Computer Science</i> , 2013 , 280-293	0.9	1
37	Imputation of Missing Values Affecting the Software Performance of Component-based Robots. <i>Computers and Electrical Engineering</i> , 2020 , 87, 106766	4.3	1
36	Machine Learning to Forecast the Success of Infrastructure Projects Worldwide. <i>Cybernetics and Systems</i> , 2020 , 51, 714-731	1.9	1
35	Advanced feature selection to study the internationalization strategy of enterprises. <i>PeerJ Computer Science</i> , 2021 , 7, e403	2.7	1
34	Clustering and Neural Visualization for Flow-Based Intrusion Detection. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 333-345	0.4	0
33	Corruption and private participation infrastructure projects: The influence of vicarious experience and national animosity. <i>Canadian Journal of Administrative Sciences</i> , 2020 , 37, 513-527	1.3	0
32	A visual tool for monitoring and detecting anomalies in robot performance. <i>Pattern Analysis and Applications</i> ,1	2.3	0
31	A Comparison of Clustering Techniques for Meteorological Analysis. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 117-130	0.4	0
30	A Hybrid Solution for Advice in the Knowledge Management Field. <i>Lecture Notes in Computer Science</i> , 2009 , 157-168	0.9	0
29	Design issues in Time Series dataset balancing algorithms. <i>Neural Computing and Applications</i> , 2020 , 32, 1287-1304	4.8	0
28	Different approaches for the detection of SSH anomalous connections. <i>Logic Journal of the IGPL</i> , 2015 , jzv047	1	
27	Improving the Prediction of Project Success in the Telecom Sector by Means of Advanced Data Balancing. <i>Cybernetics and Systems</i> ,1-15	1.9	

26	Detecting Performance Anomalies in the Multi-component Software a Collaborative Robot. <i>Lecture Notes in Computer Science</i> , 2020 , 533-540	0.9
25	Agents and Neural Networks for Intrusion Detection. <i>Advances in Soft Computing</i> , 2009 , 155-162	
24	IDS Based on Bio-inspired Models. <i>Lecture Notes in Computer Science</i> , 2007 , 133-140	0.9
23	Country and Political Risk Analysis of Spanish Multinational Enterprises Using Exploratory Projection Pursuit. <i>Lecture Notes in Computer Science</i> , 2008 , 508-515	0.9
22	Studying Road Transportation Demand in the Spanish Industrial Sector Through k-Means Clustering. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 387-396	0.4
21	Neural Visualization for the Analysis of Energy and Water Consumptions in the Automotive Industry. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 167-176	0.4
20	Visualizing Industrial Development Distance to Better Understand Internationalization of Spanish Companies. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 377-386	0.4
19	The Evolution of Privacy in the Blockchain: A Historical Survey. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 23-34	0.4
18	Advanced Oversampling for Improved Detection of Software Anomalies in a Robot. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 3-12	0.4
17	Trends and Patterns of International Student Mobility: The Case of Bachelor's Degrees in Computer Science at the University of Burgos. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 142-153	0.4
16	Clustering and Regression to Impute Missing Values of Robot Performance. <i>Lecture Notes in Computer Science</i> , 2020 , 86-94	0.9
15	Analysing the Effect of Recent Anti-pollution Policies in Madrid City Through Soft-Computing. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 286-295	0.4
14	Incorporating Temporal Constraints in the Planning Task of a Hybrid Intelligent IDS. <i>Lecture Notes in Computer Science</i> , 2010 , 101-110	0.9
13	Assessing Knowledge Management in the Power Sector through a Connectionist Model. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 721-729	
12	Approaching Real-Time Intrusion Detection through MOVICAB-IDS. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 9-18	
11	Unsupervised Visualization of SQL Attacks by Means of the SCMAS Architecture. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 713-720	
10	Incorporating Temporal Constraints in the Analysis Task of a Hybrid Intelligent IDS. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 61-69	
9	Clustering for Intrusion Detection: Network Scans as a Case of Study. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 33-45	0.4

8	Soft Computing for the Analysis of People Movement Classification. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 241-248	0.4
7	Self-Organizing Maps to Validate Anti-Pollution Policies. <i>Logic Journal of the IGPL</i> , 2020 , 28, 596-614	1
6	Recent Advances on the Application of Soft Computing to Industrial and Environmental Enterprises. <i>Cybernetics and Systems</i> , 2020 , 51, 647-648	1.9
5	Neuro-Evolutionary Feature Selection to Detect Android Malware. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 124-131	0.4
4	A Hybrid Intelligent System to Detect Anomalies in Robot Performance. <i>Lecture Notes in Computer Science</i> , 2021 , 415-426	0.9
3	Visually Monitoring the Performance of a Component-Based Robot. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 112-121	0.4
2	Advanced 3D Visualization of Android Malware Families. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 167-177	0.4
1	Analysis of the Tourism Industry in Ecuador by Means of Soft Computing Techniques. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 811-820	0.4