

# Alvaro Herrero

## List of Publications by Year in Descending Order

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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	An Intelligent Visualisation Tool to Analyse the Sustainability of Road Transportation. <i>Sustainability</i> , <b>2022</b> , 14, 777	3.6	1
114	Humidity forecasting in a potato plantation using time-series neural models. <i>Journal of Computational Science</i> , <b>2022</b> , 59, 101547	3.4	2
113	Visually Monitoring the Performance of a Component-Based Robot. <i>Advances in Intelligent Systems and Computing</i> , <b>2022</b> , 112-121	0.4	
112	Advanced 3D Visualization of Android Malware Families. <i>Advances in Intelligent Systems and Computing</i> , <b>2022</b> , 167-177	0.4	
111	Analysis of the Tourism Industry in Ecuador by Means of Soft Computing Techniques. <i>Advances in Intelligent Systems and Computing</i> , <b>2022</b> , 811-820	0.4	
110	Neural Models to Predict Irrigation Needs of a Potato Plantation. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 600-613	0.4	2
109	The Evolution of Privacy in the Blockchain: A Historical Survey. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 23-34	0.4	
108	Advanced Oversampling for Improved Detection of Software Anomalies in a Robot. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 3-12	0.4	
107	Trends and Patterns of International Student Mobility: The Case of Bachelor Degrees in Computer Science at the University of Burgos. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 142-153	0.4	
106	Data Balancing to Improve Prediction of Project Success in the Telecom Sector. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 366-373	0.4	1
105	Beta-Hebbian Learning for Visualizing Intrusions in Flows. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 446-459	0.4	1
104	Advanced Machine Learning techniques for fake news (online disinformation) detection: A systematic mapping study. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 101, 107050	7.5	22
103	Advanced feature selection to study the internationalization strategy of enterprises. <i>PeerJ Computer Science</i> , <b>2021</b> , 7, e403	2.7	1
102	A Hybrid Intelligent System to Detect Anomalies in Robot Performance. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 415-426	0.9	
101	Intrusion Detection with Unsupervised Techniques for Network Management Protocols over Smart Grids. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2276	2.6	5
100	A Decision-Making Tool Based on Exploratory Visualization for the Automotive Industry. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4355	2.6	7
99	Analysing the intermeshed patterns of road transportation and macroeconomic indicators through neural and clustering techniques. <i>Pattern Analysis and Applications</i> , <b>2020</b> , 23, 1059-1070	2.3	4

98	Entrepreneurial Interest and Entrepreneurial Competence Among Spanish Youth: An Analysis with Artificial Neural Networks. <i>Sustainability</i> , <b>2020</b> , 12, 1351	3.6	5
97	Corruption and private participation infrastructure projects: The influence of vicarious experience and national animosity. <i>Canadian Journal of Administrative Sciences</i> , <b>2020</b> , 37, 513-527	1.3	0
96	Detecting Performance Anomalies in the Multi-component Software a Collaborative Robot. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 533-540	0.9	
95	One-Class Classification to Predict the Success of Private-Participation Infrastructure Projects in Europe. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 443-451	0.4	3
94	Clustering and Regression to Impute Missing Values of Robot Performance. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 86-94	0.9	
93	Self-Organizing Maps to Validate Anti-Pollution Policies. <i>Logic Journal of the IGPL</i> , <b>2020</b> , 28, 596-614	1	
92	Improving the detection of robot anomalies by handling data irregularities. <i>Neurocomputing</i> , <b>2020</b> ,	5.4	5
91	The Association of Parental Interest in Entrepreneurship with the Entrepreneurial Interest of Spanish Youth. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	6
90	Imputation of Missing Values Affecting the Software Performance of Component-based Robots. <i>Computers and Electrical Engineering</i> , <b>2020</b> , 87, 106766	4.3	1
89	Machine Learning to Forecast the Success of Infrastructure Projects Worldwide. <i>Cybernetics and Systems</i> , <b>2020</b> , 51, 714-731	1.9	1
88	Recent Advances on the Application of Soft Computing to Industrial and Environmental Enterprises. <i>Cybernetics and Systems</i> , <b>2020</b> , 51, 647-648	1.9	
87	Neuro-Evolutionary Feature Selection to Detect Android Malware. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 124-131	0.4	
86	Data Selection to Improve Anomaly Detection in a Component-Based Robot. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 241-250	0.4	3
85	Design issues in Time Series dataset balancing algorithms. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 1287-1304	4.8	0
84	Selecting Features that Drive Internationalization of Spanish Firms. <i>Cybernetics and Systems</i> , <b>2019</b> , 50, 25-39	1.9	10
83	The Socio-educational, Psychological and Family-Related Antecedents of Entrepreneurial Intentions among Spanish Youth. <i>Sustainability</i> , <b>2019</b> , 11, 1252	3.6	13
82	A Hybrid Intelligent System to forecast solar energy production. <i>Computers and Electrical Engineering</i> , <b>2019</b> , 78, 373-387	4.3	17
81	Delving into Android Malware Families with a Novel Neural Projection Method. <i>Complexity</i> , <b>2019</b> , 2019, 1-10	1.6	7

80	Hybrid Unsupervised Exploratory Plots: A Case Study of Analysing Foreign Direct Investment. <i>Complexity</i> , <b>2019</b> , 2019, 1-14	1.6	15
79	Soft computing applications in the field of industrial and environmental enterprises. <i>Expert Systems</i> , <b>2019</b> , 36, e12456	2.1	2
78	Studying Road Transportation Demand in the Spanish Industrial Sector Through k-Means Clustering. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 387-396	0.4	
77	Neural Visualization for the Analysis of Energy and Water Consumptions in the Automotive Industry. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 167-176	0.4	
76	Visualizing Industrial Development Distance to Better Understand Internationalization of Spanish Companies. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 377-386	0.4	
75	Gaining deep knowledge of Android malware families through dimensionality reduction techniques. <i>Logic Journal of the IGPL</i> , <b>2019</b> , 27, 160-176	1	31
74	Neural Models for Imputation of Missing Ozone Data in Air-Quality Datasets. <i>Complexity</i> , <b>2018</b> , 2018, 1-14	1.6	15
73	A SMOTE Extension for Balancing Multivariate Epilepsy-Related Time Series Datasets. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 439-448	0.4	1
72	Analysing the Effect of Recent Anti-pollution Policies in Madrid City Through Soft-Computing. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 286-295	0.4	
71	Analysis of meteorological conditions in Spain by means of clustering techniques. <i>Journal of Applied Logic</i> , <b>2017</b> , 24, 76-89		13
70	Time Analysis of Air Pollution in a Spanish Region Through k-means. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 63-72	0.4	1
69	Key features for the characterization of Android malware families. <i>Logic Journal of the IGPL</i> , <b>2017</b> , 25, 54-66	1	7
68	Neural Visualization of Android Malware Families. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 574-583	0.4	6
67	Characterization of Android Malware Families by a Reduced Set of Static Features. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 607-617	0.4	2
66	Clustering extension of MOVICAB-IDS to distinguish intrusions in flow-based data. <i>Logic Journal of the IGPL</i> , <b>2017</b> , 25, 83-102	1	6
65	A hybrid intelligent system for the analysis of atmospheric pollution: a case study in two European regions. <i>Logic Journal of the IGPL</i> , <b>2017</b> , 25, 915-937	1	5
64	A hybrid proposal for cross-sectoral analysis of knowledge management. <i>Soft Computing</i> , <b>2016</b> , 20, 4271-4285	3.5	7
63	Clustering and Neural Visualization for Flow-Based Intrusion Detection. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 333-345	0.4	0

62	Clustering extension of MOVICAB-IDS to identify SNMP community searches. <i>Logic Journal of the IGPL</i> , <b>2015</b> , 23, 121-140	1	3
61	Neural Analysis of HTTP Traffic for Web Attack Detection. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 201-212	0.4	15
60	Self-Assessment Web Tool for Java Programming. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 583-592	0.4	1
59	A Preliminary Cooperative Genetic Fuzzy Proposal for Epilepsy Identification Using Wearable Devices. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 49-63	0.4	1
58	Different approaches for the detection of SSH anomalous connections. <i>Logic Journal of the IGPL</i> , <b>2015</b> , jzv047	1	
57	On the Selection of Key Features for Android Malware Characterization. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 167-176	0.4	2
56	10th International Conference on Soft Computing Models in Industrial and Environmental Applications. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> ,	0.4	2
55	Features and models for human activity recognition. <i>Neurocomputing</i> , <b>2015</b> , 167, 52-60	5.4	42
54	Easing knowledge management in the power sector by means of a neuro-genetic system. <i>International Journal of Bio-Inspired Computation</i> , <b>2015</b> , 7, 170	2.9	3
53	Neuro-Fuzzy Analysis of Atmospheric Pollution. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 382-392	0.9	1
52	Analysis of Knowledge Management in Industrial Sectors by Means of Neural Models. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 65-75	0.4	1
51	A Comparison of Clustering Techniques for Meteorological Analysis. <i>Advances in Intelligent Systems and Computing</i> , <b>2015</b> , 117-130	0.4	0
50	International Joint Conference SOCO13-CISIS13-ICEUTE13. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> ,	0.4	2
49	Classification of SSH Anomalous Connections. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 479-488	0.4	2
48	idMAS-SQL: Intrusion Detection Based on MAS to Detect and Block SQL injection through data mining. <i>Information Sciences</i> , <b>2013</b> , 231, 15-31	7.7	43
47	RT-MOVICAB-IDS: Addressing real-time intrusion detection. <i>Future Generation Computer Systems</i> , <b>2013</b> , 29, 250-261	7.5	30
46	Mutating network scans for the assessment of supervised classifier ensembles. <i>Logic Journal of the IGPL</i> , <b>2013</b> , 21, 630-647	1	6
45	VISUALIZATION AND CLUSTERING FOR SNMP INTRUSION DETECTION. <i>Cybernetics and Systems</i> , <b>2013</b> , 44, 505-532	1.9	18

44	Clustering for Intrusion Detection: Network Scans as a Case of Study. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 33-45	0.4	
43	Hybrid Visualization for Deep Insight into Knowledge Retention in Firms. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 280-293	0.9	1
42	Soft Computing for the Analysis of People Movement Classification. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 241-248	0.4	
41	A neural-visualization IDS for honeynet data. <i>International Journal of Neural Systems</i> , <b>2012</b> , 22, 1250005	6.2	29
40	Contacting the Devices: A Review of Communication Protocols. <i>Advances in Intelligent and Soft Computing</i> , <b>2012</b> , 3-10		3
39	Unsupervised neural models for country and political risk analysis. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 13641-13641	7.8	14
38	Visual analysis of nurse rostering solutions through a bio-inspired intelligent model <b>2011</b> ,		1
37	Neural visualization of network traffic data for intrusion detection. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 2042-2056	7.5	130
36	Mobile Hybrid Intrusion Detection. <i>Studies in Computational Intelligence</i> , <b>2011</b> ,	0.8	3
35	Visualization of Misuse-Based Intrusion Detection: Application to Honeynet Data. <i>Advances in Intelligent and Soft Computing</i> , <b>2011</b> , 561-570		2
34	Analyzing Key Factors of Human Resources Management. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 463-473		4
33	Testing Ensembles for Intrusion Detection: On the Identification of Mutated Network Scans. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 109-117	0.9	1
32	DIPKIP: A CONNECTIONIST KNOWLEDGE MANAGEMENT SYSTEM TO IDENTIFY KNOWLEDGE DEFICITS IN PRACTICAL CASES. <i>Computational Intelligence</i> , <b>2010</b> , 26, 26-56	2.5	29
31	A Distributed Hierarchical Multi-agent Architecture for Detecting Injections in SQL Queries. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 51-59		2
30	AIIDA-SQL: An Adaptive Intelligent Intrusion Detector Agent for detecting SQL Injection attacks <b>2010</b> ,		13
29	CBRid4SQL: A CBR Intrusion Detector for SQL Injection Attacks. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 510-519	0.9	7
28	Incorporating Temporal Constraints in the Planning Task of a Hybrid Intelligent IDS. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 101-110	0.9	
27	Assessing Knowledge Management in the Power Sector through a Connectionist Model. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 721-729		

26	Approaching Real-Time Intrusion Detection through MOVICAB-IDS. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 9-18		
25	Unsupervised Visualization of SQL Attacks by Means of the SCMAS Architecture. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 713-720		
24	Incorporating Temporal Constraints in the Analysis Task of a Hybrid Intelligent IDS. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 61-69		
23	Understanding Honeypot Data by an Unsupervised Neural Visualization. <i>Advances in Intelligent and Soft Computing</i> , <b>2010</b> , 151-160		1
22	Multiagent Systems for Network Intrusion Detection: A Review. <i>Advances in Intelligent and Soft Computing</i> , <b>2009</b> , 143-154		8
21	MOVIH-IDS: A mobile-visualization hybrid intrusion detection system. <i>Neurocomputing</i> , <b>2009</b> , 72, 2775-2784	384	39
20	Neural projection techniques for the visual inspection of network traffic. <i>Neurocomputing</i> , <b>2009</b> , 72, 3649-3658	27	
19	Hybrid Artificial Intelligence Systems. <i>Lecture Notes in Computer Science</i> , <b>2009</b> ,	0.9	2
18	Agents and Neural Networks for Intrusion Detection. <i>Advances in Soft Computing</i> , <b>2009</b> , 155-162		
17	A Hybrid Solution for Advice in the Knowledge Management Field. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 157-168	0.9	0
16	Mining Network Traffic Data for Attacks through MOVICAB-IDS. <i>Studies in Computational Intelligence</i> , <b>2009</b> , 377-394	0.8	5
15	Country and Political Risk Analysis of Spanish Multinational Enterprises Using Exploratory Projection Pursuit. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 508-515	0.9	
14	Traffic Data Preparation for a Hybrid Network IDS. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 247-256	0.9	4
13	Auto-Associative Neural Techniques for Intrusion Detection Systems <b>2007</b> ,		3
12	Intrusion Detection at Packet Level by Unsupervised Architectures <b>2007</b> , 718-727		2
11	IDS Based on Bio-inspired Models. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 133-140	0.9	
10	A Comparison of Neural Projection Techniques Applied to Intrusion Detection Systems <b>2007</b> , 1138-1146		3
9	Hybrid Multi Agent-Neural Network Intrusion Detection with Mobile Visualization. <i>Advances in Intelligent and Soft Computing</i> , <b>2007</b> , 320-328		14

8	MOVICAB-IDS: Visual Analysis of Network Traffic Data Streams for Intrusion Detection. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 1424-1433	0.9	10
7	Testing CAB-IDS Through Mutations: On the Identification of Network Scans. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 433-441	0.9	6
6	Detecting Compounded Anomalous SNMP Situations Using Cooperative Unsupervised Pattern Recognition. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 905-910	0.9	12
5	Identification of Anomalous SNMP Situations Using a Cooperative Connectionist Exploratory Projection Pursuit Model. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 187-194	0.9	2
4	An Unsupervised Cooperative Pattern Recognition Model to Identify Anomalous Massive SNMP Data Sending. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 778-782	0.9	3
3	Intrusion Detection System Based on a Cooperative Topology Preserving Method <b>2005</b> , 454-457		3
2	A visual tool for monitoring and detecting anomalies in robot performance. <i>Pattern Analysis and Applications</i> ,1	2.3	0
1	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	