

Emilio Corchado

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

2,583
citations

236925
25
h-index

189892
50
g-index

103
all docs

103
docs citations

103
times ranked

1785
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of multiple classifier systems as hybrid systems. Information Fusion, 2014, 16, 3-17.	19.1	778
2	Neural visualization of network traffic data for intrusion detection. Applied Soft Computing Journal, 2011, 11, 2042-2056.	7.2	148
3	Hybrid learning machines. Neurocomputing, 2009, 72, 2729-2730.	5.9	117
4	Maximum and Minimum Likelihood Hebbian Learning for Exploratory Projection Pursuit. Data Mining and Knowledge Discovery, 2004, 8, 203-225.	3.7	95
5	CONNECTIONIST TECHNIQUES FOR THE IDENTIFICATION AND SUPPRESSION OF INTERFERING UNDERLYING FACTORS. International Journal of Pattern Recognition and Artificial Intelligence, 2003, 17, 1447-1466.	1.2	89
6	A soft computing method for detecting lifetime building thermal insulation failures. Integrated Computer-Aided Engineering, 2010, 17, 103-115.	4.6	83
7	A forecasting solution to the oil spill problem based on a hybrid intelligent system. Information Sciences, 2010, 180, 2029-2043.	6.9	78
8	HYBRID NEURAL INTELLIGENT SYSTEM TO PREDICT BUSINESS FAILURE IN SMALL-TO-MEDIUM-SIZE ENTERPRISES. International Journal of Neural Systems, 2011, 21, 277-296.	5.2	75
9	Editorial: New trends and applications on hybrid artificial intelligence systems. Neurocomputing, 2012, 75, 61-63.	5.9	65
10	Structuring global responses of local filters using lateral connections. Journal of Experimental and Theoretical Artificial Intelligence, 2003, 15, 473-487.	2.8	52
11	A Hybrid Regression System Based on Local Models for Solar Energy Prediction. Informatica, 2014, 25, 265-282.	2.7	45
12	MOVIH-IDS: A mobile-visualization hybrid intrusion detection system. Neurocomputing, 2009, 72, 2775-2784.	5.9	43
13	WeVoS-ViSOM: An ensemble summarization algorithm for enhanced data visualization. Neurocomputing, 2012, 75, 171-184.	5.9	42
14	A Bio-inspired knowledge system for improving combined cycle plant control tuning. Neurocomputing, 2014, 126, 95-105.	5.9	35
15	Gaining deep knowledge of Android malware families through dimensionality reduction techniques. Logic Journal of the IGPL, 2019, 27, 160-176.	1.5	35
16	DIPKIP: A CONNECTIONIST KNOWLEDGE MANAGEMENT SYSTEM TO IDENTIFY KNOWLEDGE DEFICITS IN PRACTICAL CASES. Computational Intelligence, 2010, 26, 26-56.	3.2	34
17	RT-MOVICAB-IDS: Addressing real-time intrusion detection. Future Generation Computer Systems, 2013, 29, 250-261.	7.5	33
18	Neural projection techniques for the visual inspection of network traffic. Neurocomputing, 2009, 72, 3649-3658.	5.9	32

#	ARTICLE	IF	CITATIONS
19	An intelligent fault detection system for a heat pump installation based on a geothermal heat exchanger. Journal of Applied Logic, 2016, 17, 36-47.	1.1	31
20	Beta Hebbian Learning as a New Method for Exploratory Projection Pursuit. International Journal of Neural Systems, 2017, 27, 1750024.	5.2	31
21	A NEURAL-VISUALIZATION IDS FOR HONEYNET DATA. International Journal of Neural Systems, 2012, 22, 1250005.	5.2	30
22	Facility layout design using a multi-objective interactive genetic algorithm to support the DM. Expert Systems, 2015, 32, 94-107.	4.5	28
23	Simplified method based on an intelligent model to obtain the extinction angle of the current for a single-phase half wave controlled rectifier with resistive and inductive load. Journal of Applied Logic, 2015, 13, 37-47.	1.1	28
24	A weighted voting summarization of SOM ensembles. Data Mining and Knowledge Discovery, 2010, 21, 398-426.	3.7	26
25	VISUALIZATION AND CLUSTERING FOR SNMP INTRUSION DETECTION. Cybernetics and Systems, 2013, 44, 505-532.	2.5	23
26	Beta Scale Invariant Map. Engineering Applications of Artificial Intelligence, 2017, 59, 218-235.	8.1	20
27	Unsupervised neural models for country and political risk analysis. Expert Systems With Applications, 2011, 38, 13641-13661.	7.6	18
28	Applying soft computing techniques to optimise a dental milling process. Neurocomputing, 2013, 109, 94-104.	5.9	18
29	The application of a two-step AI model to an automated pneumatic drilling process. International Journal of Computer Mathematics, 2009, 86, 1769-1777.	1.8	17
30	Lithium iron phosphate power cell fault detection system based on hybrid intelligent system. Logic Journal of the IGPL, 2020, 28, 71-82.	1.5	17
31	Comparative Study of Imputation Algorithms Applied to the Prediction of Student Performance. Logic Journal of the IGPL, 2020, 28, 58-70.	1.5	16
32	Hybrid Intelligent Model for Fault Detection of a Lithium Iron Phosphate Power Cell Used in Electric Vehicles. Lecture Notes in Computer Science, 2016, , 751-762.	1.3	13
33	On the suitability of stacking-based ensembles in smart agriculture for evapotranspiration prediction. Applied Soft Computing Journal, 2021, 108, 107509.	7.2	13
34	ANCES: A novel method to repair attribute noise in classification problems. Pattern Recognition, 2022, 121, 108198.	8.1	13
35	THE S ² -ENSEMBLE FUSION ALGORITHM. International Journal of Neural Systems, 2011, 21, 505-525.	5.2	12
36	A Meta-Learning Recommendation System for Characterizing Unsupervised Problems: On Using Quality Indices to Describe Data Conformations. IEEE Access, 2019, 7, 63247-63263.	4.2	12

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37	A maximum likelihood Hebbian learning-based method to an agent-based architecture. International Journal of Computer Mathematics, 2009, 86, 1760-1768.	1.8	11
38	SYLPH: An Ambient Intelligence based platform for integrating heterogeneous Wireless Sensor Networks. , 2010, , .		11
39	Optimising operational costs using Soft Computing techniques. Integrated Computer-Aided Engineering, 2011, 18, 313-325.	4.6	11
40	Hybrid Classification Ensemble Using Topology-preserving Clustering. New Generation Computing, 2011, 29, 329-344.	3.3	10
41	Meta-heuristic improvements applied for steel sheet incremental cold shaping. Memetic Computing, 2012, 4, 249-261.	4.0	10
42	Optimizing the operating conditions in a high precision industrial process using soft computing techniques. Expert Systems, 2012, 29, 276-299.	4.5	9
43	New trends on soft computing models in industrial and environmental applications. Neurocomputing, 2013, 109, 1-2.	5.9	9
44	Clustering extension of MOVICAB-IDS to distinguish intrusions in flow-based data. Logic Journal of the IGPL, 2017, 25, 83-102.	1.5	9
45	KSUFS: A Novel Unsupervised Feature Selection Method Based on Statistical Tests for Standard and Big Data Problems. IEEE Access, 2019, 7, 99754-99770.	4.2	9
46	A three-step unsupervised neural model for visualizing high complex dimensional spectroscopic data sets. Pattern Analysis and Applications, 2011, 14, 207-218.	4.6	8
47	A hybrid proposal for cross-sectoral analysis of knowledge management. Soft Computing, 2016, 20, 4271-4285.	3.6	7
48	Optimizing a dental milling process by means of soft computing techniques. , 2010, , .		6
49	Mutating network scans for the assessment of supervised classifier ensembles. Logic Journal of the IGPL, 2013, 21, 630-647.	1.5	6
50	Neural Visualization of Android Malware Families. Advances in Intelligent Systems and Computing, 2017, , 574-583.	0.6	6
51	A hybrid intelligent system for the analysis of atmospheric pollution: a case study in two European regions. Logic Journal of the IGPL, 2017, 25, 915-937.	1.5	6
52	Intrusion Detection with Unsupervised Techniques for Network Management Protocols over Smart Grids. Applied Sciences (Switzerland), 2020, 10, 2276.	2.5	6
53	Improving Energy Efficiency in Buildings Using Machine Intelligence. Lecture Notes in Computer Science, 2009, , 773-782.	1.3	6
54	On the Regressand Noise Problem: Model Robustness and Synergy With Regression-Adapted Noise Filters. IEEE Access, 2021, 9, 145800-145816.	4.2	6

#	ARTICLE	IF	CITATIONS
55	WeVoS scale invariant map. Information Sciences, 2014, 280, 307-321.	6.9	5
56	A bio-inspired computational high-precision dental milling system. , 2010, , .		4
57	(OBIFS) isotropic image analysis for improving a predicting agent based systems. Expert Systems With Applications, 2013, 40, 5011-5020.	7.6	4
58	Neural PCA and Maximum Likelihood Hebbian Learning on the GPU. Lecture Notes in Computer Science, 2012, , 132-139.	1.3	4
59	Auto-Associative Neural Techniques for Intrusion Detection Systems. , 2007, , .		3
60	Isotropic Image Analysis for Improving CBR Forecasting. Journal of Mathematical Imaging and Vision, 2012, 42, 212-224.	1.3	3
61	Clustering extension of MOVICAB-IDS to identify SNMP community searches. Logic Journal of the IGPL, 2015, 23, 121-140.	1.5	3
62	A novel hybrid intelligent system for multi-objective machine parameter optimization. Pattern Analysis and Applications, 2015, 18, 31-44.	4.6	3
63	Advanced Visualization of Intrusions in Flows by Means of Beta-Hebbian Learning. Logic Journal of the IGPL, 2022, 30, 1056-1073.	1.5	3
64	A Swarm-Based Rough Set Approach for Group Decision Support Systems. , 2009, , .		2
65	A Novel Ensemble Beta-Scale Invariant Map Algorithm. IEEE Access, 2020, 8, 108857-108884.	4.2	2
66	Beta-Hebbian Learning for Visualizing Intrusions in Flows. Advances in Intelligent Systems and Computing, 2021, , 446-459.	0.6	2
67	Soft Computing Decision Support for a Steel Sheet Incremental Cold Shaping Process. Lecture Notes in Computer Science, 2011, , 482-489.	1.3	2
68	Blockchain Module for Securing Data Traffic of Industrial Production Machinery on Industrial Platforms 4.0. Lecture Notes in Networks and Systems, 2022, , 39-47.	0.7	1
69	Analysis of Knowledge Management in Industrial Sectors by Means of Neural Models. Advances in Intelligent Systems and Computing, 2015, , 65-75.	0.6	1
70	Steel Sheet Incremental Cold Shaping Improvements Using Hybridized Genetic Algorithms with Support Vector Machines and Neural Networks. Studies in Computational Intelligence, 2011, , 323-332.	0.9	1
71	Hybrid Visualization for Deep Insight into Knowledge Retention in Firms. Lecture Notes in Computer Science, 2013, , 280-293.	1.3	1
72	Intelligent operating conditions design by means of bio-inspired models. , 2011, , .		0

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73	Special issue SOCO 2015. Soft Computing, 2016, 20, 4203-4204.	3.6	0
74	Editorial: Special Issue HAIS15-IGPL. Logic Journal of the IGPL, 2017, 25, 859-861.	1.5	0
75	Editorial: Special issue HAIS19-IGPL. Logic Journal of the IGPL, 0, , .	1.5	0
76	Editorial: Special issue HAIS 2018. Logic Journal of the IGPL, 2021, 29, 121-123.	1.5	0
77	A Hybrid Intelligent System for Generic Decision for PID Controllers Design in Open-Loop. Lecture Notes in Computer Science, 2011, , 352-362.	1.3	0
78	Application of Soft Computing Technologies toward Assessment and Skills Development. Advances in Intelligent Systems and Computing, 2013, , 299-310.	0.6	0
79	Soft Computing Techniques for Skills Assessment of Highly Qualified Personnel. Advances in Intelligent Systems and Computing, 2014, , 669-678.	0.6	0
80	Modelling Dental Milling Process with Machine Learning-Based Regression Algorithms. Advances in Intelligent Systems and Computing, 2016, , 701-711.	0.6	0
81	Neural Visualization for the Analysis of Energy and Water Consumptions in the Automotive Industry. Advances in Intelligent Systems and Computing, 2019, , 167-176.	0.6	0
82	Detecting Performance Anomalies in the Multi-component Software a Collaborative Robot. Lecture Notes in Computer Science, 2020, , 533-540.	1.3	0