José Ramón Villar

List of Publications by Year
in descending order

113 papers	**957** citations	623734 **14** h-index	526287 **27** g-index
121 all docs	**121** docs citations	**121** times ranked	**873** citing authors

#	Article	IF	Citations
1	Virtual reality and machine learning in the automatic photoparoxysmal response detection. Neural Computing and Applications, 2023, 35, 5643-5659.	5.6	6
2	A*-Based Co-Evolutionary Approach for Multi-Robot Path Planning with Collision Avoidance. Cybernetics and Systems, 2023, 54, 339-354.	2.5	5
3	A First Prototype of an Emotional Smart Speaker. Advances in Intelligent Systems and Computing, 2022, , 304-313.	0.6	2
4	VR-Photosense: A Virtual Reality Photic Stimulation Interface for the Study of Photosensitivity. Advances in Intelligent Systems and Computing, 2022, , 178-186.	0.6	1
5	A New Information Infrastructure Approach for End-To-End Supply Chain Management. Advances in Intelligent Systems and Computing, 2022, , 314-323.	0.6	0
6	Low-Cost Deep Learning-Based Prototype for Automatic Identification of Traffic Signs in Vehicles. Advances in Intelligent Systems and Computing, 2022, , 91-100.	0.6	0
7	Improving wearable-based fall detection with unsupervised learning. Logic Journal of the IGPL, 2022, 30, 314-325.	1.5	4
8	Towards effective detection of elderly falls with CNN-LSTM neural networks. Neurocomputing, 2022, 500, 231-240.	5.9	18
9	Simulators and Testbeds for IIoT Development and Validation. , 2022, , .		1
10	A hybrid fuzzy clustering approach for diagnosing primary headache disorder. Logic Journal of the IGPL, 2021, 29, 220-235.	1.5	12
11	Autonomous on-wrist acceleration-based fall detection systems: unsolved challenges. Neurocomputing, 2021, 452, 404-413.	5.9	6
12	Mixing user-centered and generalized models for Fall Detection. Neurocomputing, 2021, 452, 473-486.	5.9	8
13	A Hybrid Bio-Inspired Tabu Search Clustering Approach. Lecture Notes in Computer Science, 2021, , 436-447.	1.3	0
14	A Comparison of Blink Removal Techniques in EEG Signals. Lecture Notes in Computer Science, 2021, , 355-366.	1.3	0
15	An Application of a Hybrid Intelligent System for Diagnosing Primary Headaches. International Journal of Environmental Research and Public Health, 2021, 18, 1890.	2.6	7
16	Editorial: Special issue HAIS 2018. Logic Journal of the IGPL, 2021, 29, 121-123.	1.5	0
17	A Preliminary Study on Automatic Detection and Filtering of Artifacts from EEG Signals. , 2021, , .		3
18	An ensemble solution for multivariate time series clustering. Neurocomputing, 2021, 457, 182-192.	5.9	3

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19	Time Series Data Augmentation and Dropout Roles in Deep Learning Applied to Fall Detection. Advances in Intelligent Systems and Computing, 2021, , 563-570.	0.6	0
20	A Comparison of Multivariate Time Series Clustering Methods. Advances in Intelligent Systems and Computing, 2021, , 571-579.	0.6	1
21	Synthesized A* Multi-robot Path Planning in an Indoor Smart Lab Using Distributed Cloud Computing. Advances in Intelligent Systems and Computing, 2021, , 580-589.	0.6	4
22	Peak Detection Enhancement in Autonomous Wearable Fall Detection. Advances in Intelligent Systems and Computing, 2021, , 48-58.	0.6	4
23	A Preliminary Study on Multivariate Time Series Clustering. Advances in Intelligent Systems and Computing, 2020, , 473-480.	0.6	2
24	Design issues in Time Series dataset balancing algorithms. Neural Computing and Applications, 2020, 32, 1287-1304.	5.6	1
25	Special issue SOCO 2017: AI and ML applied to Health Sciences (MLHS). Neural Computing and Applications, 2020, 32, 1217-1218.	5.6	1
26	Transfer learning and information retrieval applied to fall detection. Expert Systems, 2020, 37, e12522.	4.5	9
27	Impact of Individual Headache Types on the Work and Work Efficiency of Headache Sufferers. International Journal of Environmental Research and Public Health, 2020, 17, 6918.	2.6	14
28	High-Performance Analog Front-End (AFE) for EOG Systems. Electronics (Switzerland), 2020, 9, 970.	3.1	18
29	Hemicranial Cough-Induced Headache as a First Symptom of a Carotid-Cavernous Fistula-Case Report. Medicina (Lithuania), 2020, 56, 194.	2.0	2
30	A Hybrid Bio-inspired Clustering Approach for Diagnosing Children with Primary Headache Disorder. Lecture Notes in Computer Science, 2020, , 739-750.	1.3	2
31	DTW as Alignment Function in the Context of Time Series Balancing. Advances in Intelligent Systems and Computing, 2020, , 209-218.	0.6	0
32	Stroke Rehabilitation: Detection of Finger Movements. Lecture Notes in Computer Science, 2020, , 729-738.	1.3	0
33	Fall Detection Based on Local Peaks andÂMachine Learning. Lecture Notes in Computer Science, 2020, , 631-643.	1.3	1
34	Fall Detection Analysis Using a Real Fall Dataset. Advances in Intelligent Systems and Computing, 2019, , 334-343.	0.6	3
35	User-centered fall detection using supervised, on-line learning and transfer learning. Progress in Artificial Intelligence, 2019, 8, 453-474.	2.4	14
36	Intelligent decision support to determine the best sensory guardrail locations. Neurocomputing, 2019, 354, 41-48.	5.9	2

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37	A Proof of Concept in Multivariate Time Series Clustering Using Recurrent Neural Networks and SP-Lines. Lecture Notes in Computer Science, 2019, , 346-357.	1.3	3
38	REINFORCEMENT OF PYTHON LEARNING THROUGH A PROGRAMMING GYMKHANA. EDULEARN Proceedings, 2019, , .	0.0	0
39	FINEXT 2019: LOOKING ON THE BRIGHT SIDE BY UNCOVERING THE WEAKNESSES. , 2019, , .		0
40	When cloud meets battery. , 2018, , .		1
41	Emerging Technologies: IoT, Big Data, and CPS with Sensory Systems. Journal of Sensors, 2018, 2018, 1-3.	1.1	4
42	Improving Fall Detection Using an On-Wrist Wearable Accelerometer. Sensors, 2018, 18, 1350.	3.8	107
43	Evaluation of a Wrist-Based Wearable Fall Detection Method. Lecture Notes in Computer Science, 2018, , 377-386.	1.3	8
44	A SMOTE Extension for Balancing Multivariate Epilepsy-Related Time Series Datasets. Advances in Intelligent Systems and Computing, 2018, , 439-448.	0.6	3
45	Key features for the characterization of Android malware families. Logic Journal of the IGPL, 2017, 25, 54-66.	1.5	8
46	Characterization of Android Malware Families by a Reduced Set of Static Features. Advances in Intelligent Systems and Computing, 2017, , 607-617.	0.6	2
47	Identification of abnormal movements with 3D accelerometer sensors for seizure recognition. Journal of Applied Logic, 2017, 24, 54-61.	1.1	10
48	An IoT Platform for Epilepsy Monitoring and Supervising. Journal of Sensors, 2017, 2017, 1-18.	1.1	40
49	Spanish Road Fork Traffic Analysis and Modelling. Lecture Notes in Computer Science, 2017, , 483-493.	1.3	1
50	Learning Fuzzy Models with a SAX-based Partitioning for Simulated Seizure Recognition. Advances in Intelligent Systems and Computing, 2017, , 20-30.	0.6	0
51	Pre-Clinical Study on the Detection of Simulated Epileptic Seizures. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2016, 24, 33-46.	1.9	2
52	Generalized Models for the Classification of Abnormal Movements in Daily Life and its Applicability to Epilepsy Convulsion Recognition. International Journal of Neural Systems, 2016, 26, 1650037.	5.2	42
53	Gene clustering for time-series microarray with production outputs. Soft Computing, 2016, 20, 4301-4312.	3.6	5
54	Comparing ACO Approaches in Epilepsy Seizures. Lecture Notes in Computer Science, 2016, , 261-272.	1.3	1

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55	Simple heuristics for enhancing GP learning. Logic Journal of the IGPL, 2015, 23, 472-484.	1.5	1
56	A hybrid intelligent recognition system for the early detection of strokes. Integrated Computer-Aided Engineering, 2015, 22, 215-227.	4.6	15
57	On the Selection of Key Features for Android Malware Characterization. Advances in Intelligent Systems and Computing, 2015, , 167-176.	0.6	2
58	Features and models for human activity recognition. Neurocomputing, 2015, 167, 52-60.	5.9	57
59	Fuzzy rule learning with ACO in epilepsy crisis identification. , 2015, , .		5
60	Improving Human Activity Recognition and its Application in Early Stroke Diagnosis. International Journal of Neural Systems, 2015, 25, 1450036.	5.2	59
61	A CLUSTER MERGING METHOD FOR TIME SERIES MICROARRAY WITH PRODUCTION VALUES. International Journal of Neural Systems, 2014, 24, 1450018.	5.2	13
62	Urban bicycles renting systems: Modelling and optimization using nature-inspired search methods. Neurocomputing, 2014, 135, 98-106.	5.9	10
63	Data Analysis for Detecting a Temporary Breath Inability Episode. Lecture Notes in Computer Science, 2014, , 126-133.	1.3	0
64	Hybrid Systems for Analyzing the Movements during a Temporary Breath Inability Episode. Lecture Notes in Computer Science, 2014, , 549-560.	1.3	1
65	An intelligent route management system for electric vehicle charging. Integrated Computer-Aided Engineering, 2013, 20, 321-333.	4.6	15
66	Human Activity Recognition and Feature Selection for Stroke Early Diagnosis. Lecture Notes in Computer Science, 2013, , 659-668.	1.3	9
67	A Preliminary Study on Early Diagnosis of Illnesses Based on Activity Disturbances. Advances in Intelligent Systems and Computing, 2013, , 521-527.	0.6	4
68	Learning and training techniques in fuzzy control for energy efficiency in buildings. Logic Journal of the IGPL, 2012, 20, 757-769.	1.5	4
69	Meta-heuristic improvements applied for steel sheet incremental cold shaping. Memetic Computing, 2012, 4, 249-261.	4.0	10
70	Optimizing the operating conditions in a high precision industrial process using soft computing techniques. Expert Systems, 2012, 29, 276-299.	4.5	9
71	Multi-objective learning of white box models with low quality data. Neurocomputing, 2012, 75, 219-225.	5.9	1
72	Merge Method for Shape-Based Clustering in Time Series Microarray Analysis. Lecture Notes in Computer Science, 2012, , 834-841.	1.3	0

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73	Comparison of Fuzzy Functions for Low Quality Data GAP Algorithms. Lecture Notes in Computer Science, 2012, , 339-349.	1.3	0
74	A hybrid evolutionary approach to the management of Bicycle Renting Systems. , 2011, , .		1
75	Evolutionary model support for Urban Bicycles Renting Systems. , 2011, , .		1
76	Intelligent operating conditions design by means of bio-inspired models. , 2011, , .		0
77	Optimising operational costs using Soft Computing techniques. Integrated Computer-Aided Engineering, 2011, 18, 313-325.	4.6	11
78	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
79	Soft Computing Decision Support for a Steel Sheet Incremental Cold Shaping Process. Lecture Notes in Computer Science, 2011, , 482-489.	1.3	2
80	An Study of the Tree Generation Algorithms in Equation Based Model Learning with Low Quality Data. Lecture Notes in Computer Science, 2011, , 84-91.	1.3	1
81	Tree Generation Methods Comparison in GAP Problems with Low Quality Data. Advances in Intelligent and Soft Computing, 2011, , 85-93.	0.2	1
82	A feature selection method using a fuzzy mutual information measure. International Journal of Reasoning-based Intelligent Systems, 2010, 2, 133.	0.1	7
83	Taximeter verification with GPS and soft computing techniques. Soft Computing, 2010, 14, 405-418.	3.6	9
84	A soft computing method for detecting lifetime building thermal insulation failures. Integrated Computer-Aided Engineering, 2010, 17, 103-115.	4.6	83
85	Improving enterprise resource planning results using knowledge extraction and learning. , 2010, , .		0
86	Scalability of a Methodology for Generating Technical Trading Rules with GAPs Based on Risk-Return Adjustment and Incremental Training. Lecture Notes in Computer Science, 2010, , 143-150.	1.3	4
87	Modelling of Heat Flux in Building Using Soft-Computing Techniques. Lecture Notes in Computer Science, 2010, , 636-645.	1.3	1
88	Evaluating the Low Quality Measurements in Lighting Control Systems. Advances in Intelligent and Soft Computing, 2010, , 119-126.	0.2	1
89	Low Quality Data Management for Optimising Energy Efficiency in Distributed Agents. Advances in Intelligent and Soft Computing, 2010, , 673-680.	0.2	0
90	Analysing the Low Quality of the Data in Lighting Control Systems. Lecture Notes in Computer Science, 2010, , 421-428.	1.3	4

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91	A fuzzy logic based efficient energy saving approach for domestic heating systems. Integrated Computer-Aided Engineering, 2009, 16, 151-163.	4.6	40
92	Taximeter verification using imprecise data from GPS. Engineering Applications of Artificial Intelligence, 2009, 22, 250-260.	8.1	10
93	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
94	Unsupervised Feature Selection in High Dimensional Spaces and Uncertainty. Lecture Notes in Computer Science, 2009, , 565-572.	1.3	4
95	Improving Energy Efficiency in Buildings Using Machine Intelligence. Lecture Notes in Computer Science, 2009, , 773-782.	1.3	6
96	A Thermodynamical Model Study for an Energy Saving Algorithm. Lecture Notes in Computer Science, 2009, , 384-390.	1.3	3
97	Efficiency in Electrical Heating Systems: An MAS Real World Application. Advances in Intelligent and Soft Computing, 2009, , 460-469.	0.2	2
98	A Soft Computing System to Perform Face Milling Operations. Lecture Notes in Computer Science, 2009, , 1282-1291.	1.3	3
99	Obtaining transparent models of chaotic systems with multi-objective simulated annealing algorithms. Information Sciences, 2008, 178, 952-970.	6.9	25
100	Mutual information-based feature selection and partition design in fuzzy rule-based classifiers from vague data. International Journal of Approximate Reasoning, 2008, 49, 607-622.	3.3	46
101	Energy Saving By Means Of Multiagent Systems And Fuzzy Systems. IEEE Latin America Transactions, 2008, 6, 517-523.	1.6	2
102	Conventional Methods and AI models for Solving an Industrial an Industrial Problem. , 2008, , .		0
103	Minimizing Energy Consumption in Heating Systems under Uncertainty. Lecture Notes in Computer Science, 2008, , 583-590.	1.3	8
104	AI for Modelling the Laser Milling of Copper Components. Lecture Notes in Computer Science, 2008, , 498-507.	1.3	4
105	A Feature Selection Method Using a Fuzzy Mutual Information Measure. Advances in Intelligent and Soft Computing, 2007, , 56-63.	0.2	10
106	Some Results about Mutual Information-based Feature Selection and Fuzzy Discretization of Vague Data. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	7
107	Energy Saving by Means of Fuzzy Systems. Lecture Notes in Computer Science, 2007, , 155-167.	1.3	4
108	Longest path estimation from inherently fuzzy data acquired with GPS using genetic algorithms. , 2006, , .		7

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109	AN INTELLIGENT TUTORING SYSTEM BASED ON A DOMAIN ONTOLOGY FOR THE DESIGN OF LEAD-LAG CONTROLLERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 105-110.	0.4	2
110	A web-based multi-agent system approach to document engineering. International Journal of Web Engineering and Technology, 2004, 1, 437.	0.2	0
111	A three-stage hybrid clustering system for diagnosing children with primary headache disorder. Logic Journal of the IGPL, 0, , .	1.5	5
112	A low-power HAR method for Fall and High-Intensity ADLs identification using wrist-worn accelerometer devices. Logic Journal of the IGPL, 0, , .	1.5	1
113	Early Detection of Flash Floods Using Case-Based Reasoning. , 0, , .		0