

# Jose M Benitez

## 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.

95  
papers

3,970  
citations

32  
h-index

62  
g-index

104  
ext. papers

4,829  
ext. citations

4.6  
avg. IF

5.79  
L-index

#	Paper	IF	Citations
95	Rango de acción del colocador como indicador de rendimiento en voleibol masculino. <i>Revista Internacional De Medicina Y Ciencias De La Actividad Fisica Y Del Deporte</i> , <b>2022</b> , 22, 169-182	0.5	
94	SCMFTS: Scalable and Distributed Complexity Measures and Features for Univariate and Multivariate Time Series in Big Data Environments. <i>International Journal of Computational Intelligence Systems</i> , <b>2021</b> , 14, 1	3.4	1
93	Multivariate times series classification through an interpretable representation. <i>Information Sciences</i> , <b>2021</b> , 569, 596-614	7.7	4
92	The influence of limb role, direction of movement and limb dominance on movement strategies during block jump-landings in volleyball. <i>Scientific Reports</i> , <b>2021</b> , 11, 23668	4.9	
91	Semantics of Data Mining Services in Cloud Computing. <i>IEEE Transactions on Services Computing</i> , <b>2020</b> , 1-1	4.8	2
90	Can kinematic and kinetic differences between planned and unplanned volleyball block jump-landings be associated with injury risk factors?. <i>Gait and Posture</i> , <b>2020</b> , 79, 71-79	2.6	4
89	Distributed FastShapelet Transform: a Big Data time series classification algorithm. <i>Information Sciences</i> , <b>2019</b> , 496, 451-463	7.7	17
88	Linguistic OWA and two time-windows based fault identification in wide plants. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 115, 412-430	4	3
87	Multiobjective Optimization for Railway Maintenance Plans. <i>Journal of Computing in Civil Engineering</i> , <b>2018</b> , 32, 04018014	5	11
86	A Forecasting Methodology for Workload Forecasting in Cloud Systems. <i>IEEE Transactions on Cloud Computing</i> , <b>2018</b> , 6, 929-941	3.3	15
85	An Information Theory-Based Feature Selection Framework for Big Data Under Apache Spark. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2018</b> , 48, 1441-1453	7.3	37
84	A distributed evolutionary multivariate discretizer for Big Data processing on Apache Spark. <i>Swarm and Evolutionary Computation</i> , <b>2018</b> , 38, 240-250	9.8	21
83	Fault detection based on time series modeling and multivariate statistical process control. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2018</b> , 182, 57-69	3.8	32
82	On the use of convolutional neural networks for robust classification of multiple fingerprint captures. <i>International Journal of Intelligent Systems</i> , <b>2018</b> , 33, 213-230	8.4	44
81	Self-labeling techniques for semi-supervised time series classification: an empirical study. <i>Knowledge and Information Systems</i> , <b>2018</b> , 55, 493-528	2.4	12
80	Minutiae-based fingerprint matching decomposition: Methodology for big data frameworks. <i>Information Sciences</i> , <b>2017</b> , 408, 198-212	7.7	24
79	SMOTE-GPU: Big Data preprocessing on commodity hardware for imbalanced classification. <i>Progress in Artificial Intelligence</i> , <b>2017</b> , 6, 347-354	4	14

78	Distributed incremental fingerprint identification with reduced database penetration rate using a hierarchical classification based on feature fusion and selection. <i>Knowledge-Based Systems</i> , <b>2017</b> , 126, 91-103	7.3	24
77	Nearest Neighbor Classification for High-Speed Big Data Streams Using Spark. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 2727-2739	7.3	38
76	Fast-mRMR: Fast Minimum Redundancy Maximum Relevance Algorithm for High-Dimensional Big Data. <i>International Journal of Intelligent Systems</i> , <b>2017</b> , 32, 134-152	8.4	76
75	Open Calculator for Environmental and Social Footprints of Rail Infrastructures. <i>Progress in IS</i> , <b>2017</b> , 237-249	0.9	
74	On the stopping criteria for k -Nearest Neighbor in positive unlabeled time series classification problems. <i>Information Sciences</i> , <b>2016</b> , 328, 42-59	7.7	21
73	Multivariate Discretization Based on Evolutionary Cut Points Selection for Classification. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 595-608	10.2	28
72	GPU-SME-kNN: Scalable and memory efficient kNN and lazy learning using GPUs. <i>Information Sciences</i> , <b>2016</b> , 373, 165-182	7.7	15
71	Big data preprocessing: methods and prospects. <i>Big Data Analytics</i> , <b>2016</b> , 1,	2.9	172
70	Bagging exponential smoothing methods using STL decomposition and Box-Cox transformation. <i>International Journal of Forecasting</i> , <b>2016</b> , 32, 303-312	5.3	106
69	Memetic Algorithms with Local Search Chains in R: The Rmalschains Package. <i>Journal of Statistical Software</i> , <b>2016</b> , 75,	7.3	11
68	A Wrapper Evolutionary Approach for Supervised Multivariate Discretization: A Case Study on Decision Trees. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 47-58	0.4	
67	Development of a Smart Framework Based on Knowledge to Support Infrastructure Maintenance Decisions in Railway Corridors. <i>Transportation Research Procedia</i> , <b>2016</b> , 14, 1987-1995	2.4	3
66	Relationship between middle hitter and setter's position and its influence on the attack zone in elite men's volleyball. <i>International Journal of Performance Analysis in Sport</i> , <b>2016</b> , 16, 523-538	1.8	2
65	DPD-DFF: A dual phase distributed scheme with double fingerprint fusion for fast and accurate identification in large databases. <i>Information Fusion</i> , <b>2016</b> , 32, 40-51	16.7	15
64	Knowledge-based Minimization of Railway Infrastructures Environmental Impact. <i>Transportation Research Procedia</i> , <b>2016</b> , 14, 840-849	2.4	4
63	Data discretization: taxonomy and big data challenge. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2016</b> , 6, 5-21	6.9	71
62	A MapReduce Approach to Address Big Data Classification Problems Based on the Fusion of Linguistic Fuzzy Rules. <i>International Journal of Computational Intelligence Systems</i> , <b>2015</b> , 8, 422-437	3.4	67
61	ROSEFW-RF: The winner algorithm for the ECBDL14 big data competition: An extremely imbalanced big data bioinformatics problem. <i>Knowledge-Based Systems</i> , <b>2015</b> , 87, 69-79	7.3	97

60	A survey of fingerprint classification Part II: Experimental analysis and ensemble proposal. <i>Knowledge-Based Systems</i> , <b>2015</b> , 81, 98-116	7.3	31
59	A survey on fingerprint minutiae-based local matching for verification and identification: Taxonomy and experimental evaluation. <i>Information Sciences</i> , <b>2015</b> , 315, 67-87	7.7	82
58	Cost-sensitive linguistic fuzzy rule based classification systems under the MapReduce framework for imbalanced big data. <i>Fuzzy Sets and Systems</i> , <b>2015</b> , 258, 5-38	3.7	179
57	A high performance memetic algorithm for extremely high-dimensional problems. <i>Information Sciences</i> , <b>2015</b> , 293, 35-58	7.7	23
56	Evolutionary Feature Selection for Big Data Classification: A MapReduce Approach. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-11	1.1	71
55	Analysis of Data Preprocessing Increasing the Oversampling Ratio for Extremely Imbalanced Big Data Classification <b>2015</b> ,		14
54	Distributed Entropy Minimization Discretizer for Big Data Analysis under Apache Spark <b>2015</b> ,		15
53	Fast fingerprint identification using GPUs. <i>Information Sciences</i> , <b>2015</b> , 301, 195-214	7.7	16
52	A survey of fingerprint classification Part I: Taxonomies on feature extraction methods and learning models. <i>Knowledge-Based Systems</i> , <b>2015</b> , 81, 76-97	7.3	42
51	frbs: Fuzzy Rule-Based Systems for Classification and Regression in R. <i>Journal of Statistical Software</i> , <b>2015</b> , 65,	7.3	84
50	On the use of MapReduce for imbalanced big data using Random Forest. <i>Information Sciences</i> , <b>2014</b> , 285, 112-137	7.7	179
49	Minutiae filtering to improve both efficacy and efficiency of fingerprint matching algorithms. <i>Engineering Applications of Artificial Intelligence</i> , <b>2014</b> , 32, 37-53	7.2	22
48	. <i>IEEE Transactions on Information Forensics and Security</i> , <b>2014</b> , 9, 62-71	8	30
47	On the usefulness of cross-validation for directional forecast evaluation. <i>Computational Statistics and Data Analysis</i> , <b>2014</b> , 76, 132-143	1.6	36
46	A review of microarray datasets and applied feature selection methods. <i>Information Sciences</i> , <b>2014</b> , 282, 111-135	7.7	352
45	E-learning and educational data mining in cloud computing: an overview. <i>International Journal of Learning Technology</i> , <b>2014</b> , 9, 25	0.5	22
44	Implementing algorithms of rough set theory and fuzzy rough set theory in the R package RoughSets <i>Information Sciences</i> , <b>2014</b> , 287, 68-89	7.7	96
43	On the use of MapReduce to build linguistic fuzzy rule based classification systems for big data <b>2014</b> ,		9

42	Big Data with Cloud Computing: an insight on the computing environment, MapReduce, and programming frameworks. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , <b>2014</b> , 4, 380-409	6.9	134
41	Learning from data using the R package "FRBS" <b>2014</b> ,		8
40	Fast fingerprint identification for large databases. <i>Pattern Recognition</i> , <b>2014</b> , 47, 588-602	7.7	42
39	The Links between Statistical and Fuzzy Models for Time Series Analysis and Forecasting. <i>Intelligent Systems Reference Library</i> , <b>2013</b> , 1-30	0.8	
38	FRASel: a consensus of feature ranking methods for time series modelling. <i>Soft Computing</i> , <b>2013</b> , 17, 1489-1510	3.5	3
37	An Overview on the Structure and Applications for Business Intelligence and Data Mining in Cloud Computing. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 559-570	0.4	2
36	A Study on the Use of Machine Learning Methods for Incidence Prediction in High-Speed Train Tracks. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 674-683	0.9	7
35	On the use of cross-validation for time series predictor evaluation. <i>Information Sciences</i> , <b>2012</b> , 191, 192-213	3.7	331
34	Time series modeling and forecasting using memetic algorithms for regime-switching models. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2012</b> , 23, 1841-7	10.3	10
33	Financial time series forecasting with a bio-inspired fuzzy model. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 12302-12309	7.8	16
32	Segmentation of cervical cell nuclei in high-resolution microscopic images: A new algorithm and a web-based software framework. <i>Computer Methods and Programs in Biomedicine</i> , <b>2012</b> , 107, 497-512	6.9	82
31	Neural Networks in R Using the Stuttgart Neural Network Simulator:RSNNS. <i>Journal of Statistical Software</i> , <b>2012</b> , 46,	7.3	135
30	An Overview of E-Learning in Cloud Computing. <i>Advances in Intelligent Systems and Computing</i> , <b>2012</b> , 35-46	0.4	26
29	Optimization of Neuro-Coefficient Smooth Transition Autoregressive Models Using Differential Evolution. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 464-473	0.9	
28	Fuzzy Autoregressive Rules: Towards Linguistic Time Series Modeling. <i>Econometric Reviews</i> , <b>2011</b> , 30, 646-668	1.1	1
27	A test for the homoscedasticity of the residuals in fuzzy rule-based forecasters. <i>Applied Intelligence</i> , <b>2011</b> , 34, 386-393	4.9	5
26	Forecaster performance evaluation with cross-validation and variants <b>2011</b> ,		5
25	Empirical study of feature selection methods based on individual feature evaluation for classification problems. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 8170-8177	7.8	64

24	Equivalences between neural-autoregressive time series models and fuzzy systems. <i>IEEE Transactions on Neural Networks</i> , <b>2010</b> , 21, 1434-44		13
23	Special issue on Hybrid Fuzzy Models. <i>International Journal of Hybrid Intelligent Systems</i> , <b>2010</b> , 7, 1-1	0.9	5
22	TESTING FOR REMAINING AUTOCORRELATION OF THE RESIDUALS IN THE FRAMEWORK OF FUZZY RULE-BASED TIME SERIES MODELLING. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , <b>2010</b> , 18, 371-387	0.8	6
21	Segmentation of cervical cell images using mean-shift filtering and morphological operators <b>2010</b> ,		6
20	Linearity testing for fuzzy rule-based models. <i>Fuzzy Sets and Systems</i> , <b>2010</b> , 161, 1836-1851	3.7	10
19	On the Use of Distributed Genetic Algorithms for the Tuning of Fuzzy Rule Based-Systems. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 235-261	0.8	1
18	Testing for Heteroskedasticity of the Residuals in Fuzzy Rule-Based Models. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 239-246	0.9	
17	Evolutionary parallel and gradually distributed lateral tuning of fuzzy rule-based systems. <i>Evolutionary Intelligence</i> , <b>2009</b> , 2, 5-19	1.7	17
16	Testing for Serial Independence of the Residuals in the Framework of Fuzzy Rule-Based Time Series Modeling <b>2009</b> ,		1
15	Artificial neural network-based equation for estimating VO2max from the 20 m shuttle run test in adolescents. <i>Artificial Intelligence in Medicine</i> , <b>2008</b> , 44, 233-45	7.4	48
14	Feature Selection for Time Series Forecasting: A Case Study <b>2008</b> ,		9
13	Empirical Study of Feature Selection Methods in Classification <b>2008</b> ,		6
12	Consistency measures for feature selection. <i>Journal of Intelligent Information Systems</i> , <b>2008</b> , 30, 273-292.	2.1	55
11	Use of Artificial Neural Network-based Equation for estimating VO2max in adolescents. <i>Medicine and Science in Sports and Exercise</i> , <b>2008</b> , 40, S197	1.2	
10	Forecasting airborne pollen concentration time series with neural and neuro-fuzzy models. <i>Expert Systems With Applications</i> , <b>2007</b> , 32, 1218-1225	7.8	76
9	Smooth transition autoregressive models and fuzzy rule-based systems: Functional equivalence and consequences. <i>Fuzzy Sets and Systems</i> , <b>2007</b> , 158, 2734-2745	3.7	22
8	On the Identifiability of TSK Additive Fuzzy Rule-Based Models <b>2006</b> , 79-86		1
7	Fuzzy Control of HVAC Systems Optimized by Genetic Algorithms. <i>Applied Intelligence</i> , <b>2003</b> , 18, 155-177.	4.9	83

6	Multicriteria Genetic Tuning for the Optimization and Control of HVAC Systems. <i>Studies in Fuzziness and Soft Computing</i> , <b>2003</b> , 308-345	0.7
5	C-FOCUS: A continuous extension of FOCUS <b>2003</b> , 225-232	3
4	Interpretation of artificial neural networks by means of fuzzy rules. <i>IEEE Transactions on Neural Networks</i> , <b>2002</b> , 13, 101-16	77
3	Neural networks with a continuous squashing function in the output are universal approximators. <i>Neural Networks</i> , <b>2000</b> , 13, 561-3	9.1 46
2	Are artificial neural networks black boxes?. <i>IEEE Transactions on Neural Networks</i> , <b>1997</b> , 8, 1156-64	304
1	A neuro-fuzzy approach for feature selection	6