

Jose M Benitez

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.

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	A review of microarray datasets and applied feature selection methods. <i>Information Sciences</i> , 2014 , 282, 111-135	7.7	352
94	On the use of cross-validation for time series predictor evaluation. <i>Information Sciences</i> , 2012 , 191, 192-213	7.7	331
93	Are artificial neural networks black boxes?. <i>IEEE Transactions on Neural Networks</i> , 1997 , 8, 1156-64		304
92	Cost-sensitive linguistic fuzzy rule based classification systems under the MapReduce framework for imbalanced big data. <i>Fuzzy Sets and Systems</i> , 2015 , 258, 5-38	3.7	179
91	On the use of MapReduce for imbalanced big data using Random Forest. <i>Information Sciences</i> , 2014 , 285, 112-137	7.7	179
90	Big data preprocessing: methods and prospects. <i>Big Data Analytics</i> , 2016 , 1,	2.9	172
89	Neural Networks in R Using the Stuttgart Neural Network Simulator: RSNNS. <i>Journal of Statistical Software</i> , 2012 , 46,	7.3	135
88	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> , 2014 , 4, 380-409	6.9	134
87	Bagging exponential smoothing methods using STL decomposition and Box-Cox transformation. <i>International Journal of Forecasting</i> , 2016 , 32, 303-312	5.3	106
86	ROSEFW-RF: The winner algorithm for the ECBDL14 big data competition: An extremely imbalanced big data bioinformatics problem. <i>Knowledge-Based Systems</i> , 2015 , 87, 69-79	7.3	97
85	Implementing algorithms of rough set theory and fuzzy rough set theory in the R package RoughSets. <i>Information Sciences</i> , 2014 , 287, 68-89	7.7	96
84	frbs: Fuzzy Rule-Based Systems for Classification and Regression in R. <i>Journal of Statistical Software</i> , 2015 , 65,	7.3	84
83	Fuzzy Control of HVAC Systems Optimized by Genetic Algorithms. <i>Applied Intelligence</i> , 2003 , 18, 155-177	4.9	83
82	A survey on fingerprint minutiae-based local matching for verification and identification: Taxonomy and experimental evaluation. <i>Information Sciences</i> , 2015 , 315, 67-87	7.7	82
81	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> , 2012 , 107, 497-512	6.9	82
80	Interpretation of artificial neural networks by means of fuzzy rules. <i>IEEE Transactions on Neural Networks</i> , 2002 , 13, 101-16		77
79	Fast-mRMR: Fast Minimum Redundancy Maximum Relevance Algorithm for High-Dimensional Big Data. <i>International Journal of Intelligent Systems</i> , 2017 , 32, 134-152	8.4	76

78	Forecasting airborne pollen concentration time series with neural and neuro-fuzzy models. <i>Expert Systems With Applications</i> , 2007 , 32, 1218-1225	7.8	76
77	Evolutionary Feature Selection for Big Data Classification: A MapReduce Approach. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-11	1.1	71
76	Data discretization: taxonomy and big data challenge. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2016 , 6, 5-21	6.9	71
75	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> , 2015 , 8, 422-437	3.4	67
74	Empirical study of feature selection methods based on individual feature evaluation for classification problems. <i>Expert Systems With Applications</i> , 2011 , 38, 8170-8177	7.8	64
73	Consistency measures for feature selection. <i>Journal of Intelligent Information Systems</i> , 2008 , 30, 273-292.1	2.1	55
72	Artificial neural network-based equation for estimating VO2max from the 20 m shuttle run test in adolescents. <i>Artificial Intelligence in Medicine</i> , 2008 , 44, 233-45	7.4	48
71	Neural networks with a continuous squashing function in the output are universal approximators. <i>Neural Networks</i> , 2000 , 13, 561-3	9.1	46
70	On the use of convolutional neural networks for robust classification of multiple fingerprint captures. <i>International Journal of Intelligent Systems</i> , 2018 , 33, 213-230	8.4	44
69	A survey of fingerprint classification Part I: Taxonomies on feature extraction methods and learning models. <i>Knowledge-Based Systems</i> , 2015 , 81, 76-97	7.3	42
68	Fast fingerprint identification for large databases. <i>Pattern Recognition</i> , 2014 , 47, 588-602	7.7	42
67	Nearest Neighbor Classification for High-Speed Big Data Streams Using Spark. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 2727-2739	7.3	38
66	An Information Theory-Based Feature Selection Framework for Big Data Under Apache Spark. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 1441-1453	7.3	37
65	On the usefulness of cross-validation for directional forecast evaluation. <i>Computational Statistics and Data Analysis</i> , 2014 , 76, 132-143	1.6	36
64	Fault detection based on time series modeling and multivariate statistical process control. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018 , 182, 57-69	3.8	32
63	A survey of fingerprint classification Part II: Experimental analysis and ensemble proposal. <i>Knowledge-Based Systems</i> , 2015 , 81, 98-116	7.3	31
62	. <i>IEEE Transactions on Information Forensics and Security</i> , 2014 , 9, 62-71	8	30
61	Multivariate Discretization Based on Evolutionary Cut Points Selection for Classification. <i>IEEE Transactions on Cybernetics</i> , 2016 , 46, 595-608	10.2	28

60	An Overview of E-Learning in Cloud Computing. <i>Advances in Intelligent Systems and Computing</i> , 2012 , 35-46	0.4	26
59	Minutiae-based fingerprint matching decomposition: Methodology for big data frameworks. <i>Information Sciences</i> , 2017 , 408, 198-212	7.7	24
58	Distributed incremental fingerprint identification with reduced database penetration rate using a hierarchical classification based on feature fusion and selection. <i>Knowledge-Based Systems</i> , 2017 , 126, 91-103	7.3	24
57	A high performance memetic algorithm for extremely high-dimensional problems. <i>Information Sciences</i> , 2015 , 293, 35-58	7.7	23
56	Minutiae filtering to improve both efficacy and efficiency of fingerprint matching algorithms. <i>Engineering Applications of Artificial Intelligence</i> , 2014 , 32, 37-53	7.2	22
55	E-learning and educational data mining in cloud computing: an overview. <i>International Journal of Learning Technology</i> , 2014 , 9, 25	0.5	22
54	Smooth transition autoregressive models and fuzzy rule-based systems: Functional equivalence and consequences. <i>Fuzzy Sets and Systems</i> , 2007 , 158, 2734-2745	3.7	22
53	On the stopping criteria for k -Nearest Neighbor in positive unlabeled time series classification problems. <i>Information Sciences</i> , 2016 , 328, 42-59	7.7	21
52	A distributed evolutionary multivariate discretizer for Big Data processing on Apache Spark. <i>Swarm and Evolutionary Computation</i> , 2018 , 38, 240-250	9.8	21
51	Evolutionary parallel and gradually distributed lateral tuning of fuzzy rule-based systems. <i>Evolutionary Intelligence</i> , 2009 , 2, 5-19	1.7	17
50	Distributed FastShapelet Transform: a Big Data time series classification algorithm. <i>Information Sciences</i> , 2019 , 496, 451-463	7.7	17
49	Fast fingerprint identification using GPUs. <i>Information Sciences</i> , 2015 , 301, 195-214	7.7	16
48	Financial time series forecasting with a bio-inspired fuzzy model. <i>Expert Systems With Applications</i> , 2012 , 39, 12302-12309	7.8	16
47	A Forecasting Methodology for Workload Forecasting in Cloud Systems. <i>IEEE Transactions on Cloud Computing</i> , 2018 , 6, 929-941	3.3	15
46	GPU-SME-kNN: Scalable and memory efficient kNN and lazy learning using GPUs. <i>Information Sciences</i> , 2016 , 373, 165-182	7.7	15
45	Distributed Entropy Minimization Discretizer for Big Data Analysis under Apache Spark 2015 ,		15
44	DPD-DFF: A dual phase distributed scheme with double fingerprint fusion for fast and accurate identification in large databases. <i>Information Fusion</i> , 2016 , 32, 40-51	16.7	15
43	SMOTE-GPU: Big Data preprocessing on commodity hardware for imbalanced classification. <i>Progress in Artificial Intelligence</i> , 2017 , 6, 347-354	4	14

42	Analysis of Data Preprocessing Increasing the Oversampling Ratio for Extremely Imbalanced Big Data Classification 2015 ,		14
41	Equivalences between neural-autoregressive time series models and fuzzy systems. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 1434-44		13
40	Self-labeling techniques for semi-supervised time series classification: an empirical study. <i>Knowledge and Information Systems</i> , 2018 , 55, 493-528	2.4	12
39	Multiobjective Optimization for Railway Maintenance Plans. <i>Journal of Computing in Civil Engineering</i> , 2018 , 32, 04018014	5	11
38	Memetic Algorithms with Local Search Chains in R: The Rmalschains Package. <i>Journal of Statistical Software</i> , 2016 , 75,	7.3	11
37	Time series modeling and forecasting using memetic algorithms for regime-switching models. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012 , 23, 1841-7	10.3	10
36	Linearity testing for fuzzy rule-based models. <i>Fuzzy Sets and Systems</i> , 2010 , 161, 1836-1851	3.7	10
35	On the use of MapReduce to build linguistic fuzzy rule based classification systems for big data 2014 ,		9
34	Feature Selection for Time Series Forecasting: A Case Study 2008 ,		9
33	Learning from data using the R package "FRBS" 2014 ,		8
32	A Study on the Use of Machine Learning Methods for Incidence Prediction in High-Speed Train Tracks. <i>Lecture Notes in Computer Science</i> , 2013 , 674-683	0.9	7
31	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> , 2010 , 18, 371-387	0.8	6
30	Segmentation of cervical cell images using mean-shift filtering and morphological operators 2010 ,		6
29	Empirical Study of Feature Selection Methods in Classification 2008 ,		6
28	A neuro-fuzzy approach for feature selection		6
27	A test for the homoscedasticity of the residuals in fuzzy rule-based forecasters. <i>Applied Intelligence</i> , 2011 , 34, 386-393	4.9	5
26	Special issue on Hybrid Fuzzy Models. <i>International Journal of Hybrid Intelligent Systems</i> , 2010 , 7, 1-1	0.9	5
25	Forecaster performance evaluation with cross-validation and variants 2011 ,		5

24	Can kinematic and kinetic differences between planned and unplanned volleyball block jump-landings be associated with injury risk factors?. <i>Gait and Posture</i> , 2020 , 79, 71-79	2.6	4
23	Knowledge-based Minimization of Railway Infrastructures Environmental Impact. <i>Transportation Research Procedia</i> , 2016 , 14, 840-849	2.4	4
22	Multivariate times series classification through an interpretable representation. <i>Information Sciences</i> , 2021 , 569, 596-614	7.7	4
21	Linguistic OWA and two time-windows based fault identification in wide plants. <i>Computers and Chemical Engineering</i> , 2018 , 115, 412-430	4	3
20	FRASel: a consensus of feature ranking methods for time series modelling. <i>Soft Computing</i> , 2013 , 17, 1489-1510	3.5	3
19	Development of a Smart Framework Based on Knowledge to Support Infrastructure Maintenance Decisions in Railway Corridors. <i>Transportation Research Procedia</i> , 2016 , 14, 1987-1995	2.4	3
18	C-FOCUS: A continuous extension of FOCUS 2003 , 225-232		3
17	Semantics of Data Mining Services in Cloud Computing. <i>IEEE Transactions on Services Computing</i> , 2020 , 1-1	4.8	2
16	An Overview on the Structure and Applications for Business Intelligence and Data Mining in Cloud Computing. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 559-570	0.4	2
15	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> , 2016 , 16, 523-538	1.8	2
14	Fuzzy Autoregressive Rules: Towards Linguistic Time Series Modeling. <i>Econometric Reviews</i> , 2011 , 30, 646-668	1.1	1
13	Testing for Serial Independence of the Residuals in the Framework of Fuzzy Rule-Based Time Series Modeling 2009 ,		1
12	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> , 2021 , 14, 1	3.4	1
11	On the Use of Distributed Genetic Algorithms for the Tuning of Fuzzy Rule Based-Systems. <i>Studies in Computational Intelligence</i> , 2010 , 235-261	0.8	1
10	On the Identifiability of TSK Additive Fuzzy Rule-Based Models 2006 , 79-86		1
9	The Links between Statistical and Fuzzy Models for Time Series Analysis and Forecasting. <i>Intelligent Systems Reference Library</i> , 2013 , 1-30	0.8	
8	Multicriteria Genetic Tuning for the Optimization and Control of HVAC Systems. <i>Studies in Fuzziness and Soft Computing</i> , 2003 , 308-345	0.7	
7	Use of Artificial Neural Network-based Equation for estimating VO2max in adolescents. <i>Medicine and Science in Sports and Exercise</i> , 2008 , 40, S197	1.2	

6	A Wrapper Evolutionary Approach for Supervised Multivariate Discretization: A Case Study on Decision Trees. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 47-58	0.4
5	Open Calculator for Environmental and Social Footprints of Rail Infrastructures. <i>Progress in IS</i> , 2017 , 237-249	0.9
4	Testing for Heteroskedasticity of the Residuals in Fuzzy Rule-Based Models. <i>Lecture Notes in Computer Science</i> , 2010 , 239-246	0.9
3	Optimization of Neuro-Coefficient Smooth Transition Autoregressive Models Using Differential Evolution. <i>Lecture Notes in Computer Science</i> , 2012 , 464-473	0.9
2	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> , 2022 , 22, 169-182	0.5
1	The influence of limb role, direction of movement and limb dominance on movement strategies during block jump-landings in volleyball. <i>Scientific Reports</i> , 2021 , 11, 23668	4.9