

Jose M Benitez

List of Publications by Year in descending order

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99
papers

5,648
citations

101384

36
h-index

79541

73
g-index

104
all docs

104
docs citations

104
times ranked

5900
citing authors

#	ARTICLE	IF	CITATIONS
1	On the use of cross-validation for time series predictor evaluation. Information Sciences, 2012, 191, 192-213.	4.0	558
2	A review of microarray datasets and applied feature selection methods. Information Sciences, 2014, 282, 111-135.	4.0	507
3	Are artificial neural networks black boxes?. IEEE Transactions on Neural Networks, 1997, 8, 1156-1164.	4.8	415
4	Big data preprocessing: methods and prospects. Big Data Analytics, 2016, 1, .	2.2	319
5	On the use of MapReduce for imbalanced big data using Random Forest. Information Sciences, 2014, 285, 112-137.	4.0	236
6	Cost-sensitive linguistic fuzzy rule based classification systems under the MapReduce framework for imbalanced big data. Fuzzy Sets and Systems, 2015, 258, 5-38.	1.6	223
7	Neural Networks in R</i>Using the Stuttgart Neural Network Simulator:RSNNS. Journal of Statistical Software, 2012, 46, .	1.8	182
8	Bagging exponential smoothing methods using STL decomposition and Boxâ€Cox transformation. International Journal of Forecasting, 2016, 32, 303-312.	3.9	181
9	Big Data with Cloud Computing: an insight on the computing environment, <scp>MapReduce</scp>, and programming frameworks. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2014, 4, 380-409.	4.6	175
10	Implementing algorithms of rough set theory and fuzzy rough set theory in the R package â€œRoughSetsâ€€. Information Sciences, 2014, 287, 68-89.	4.0	129
11	Fast-mRMR: Fast Minimum Redundancy Maximum Relevance Algorithm for High-Dimensional Big Data. International Journal of Intelligent Systems, 2017, 32, 134-152.	3.3	125
12	ROSEFW-RF: The winner algorithm for the ECBDLâ€™14 big data competition: An extremely imbalanced big data bioinformatics problem. Knowledge-Based Systems, 2015, 87, 69-79.	4.0	116
13	A survey on fingerprint minutiae-based local matching for verification and identification: Taxonomy and experimental evaluation. Information Sciences, 2015, 315, 67-87.	4.0	115
14	frbs: Fuzzy Rule-Based Systems for Classification and Regression in R</i>. Journal of Statistical Software, 2015, 65, .	1.8	115
15	Interpretation of artificial neural networks by means of fuzzy rules. IEEE Transactions on Neural Networks, 2002, 13, 101-116.	4.8	106
16	Data discretization: taxonomy and big data challenge. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2016, 6, 5-21.	4.6	105
17	Segmentation of cervical cell nuclei in high-resolution microscopic images: A new algorithm and a web-based software framework. Computer Methods and Programs in Biomedicine, 2012, 107, 497-512.	2.6	98
18	Fuzzy Control of HVAC Systems Optimized by Genetic Algorithms. Applied Intelligence, 2003, 18, 155-177.	3.3	97

#	ARTICLE	IF	CITATIONS
19	Evolutionary Feature Selection for Big Data Classification: A MapReduce Approach. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-11.	0.6	97
20	Forecasting airborne pollen concentration time series with neural and neuro-fuzzy models. <i>Expert Systems With Applications</i> , 2007, 32, 1218-1225.	4.4	90
21	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.	1.6	86
22	Empirical study of feature selection methods based on individual feature evaluation for classification problems. <i>Expert Systems With Applications</i> , 2011, 38, 8170-8177.	4.4	83
23	Consistency measures for feature selection. <i>Journal of Intelligent Information Systems</i> , 2008, 30, 273-292.	2.8	77
24	Artificial neural network-based equation for estimating VO ₂ max from the 20m shuttle run test in adolescents. <i>Artificial Intelligence in Medicine</i> , 2008, 44, 233-245.	3.8	74
25	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.	5.9	60
26	Neural networks with a continuous squashing function in the output are universal approximators. <i>Neural Networks</i> , 2000, 13, 561-563.	3.3	58
27	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.	3.3	58
28	Fault detection based on time series modeling and multivariate statistical process control. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2018, 182, 57-69.	1.8	58
29	A survey of fingerprint classification Part I: Taxonomies on feature extraction methods and learning models. <i>Knowledge-Based Systems</i> , 2015, 81, 76-97.	4.0	57
30	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.	5.9	55
31	On the usefulness of cross-validation for directional forecast evaluation. <i>Computational Statistics and Data Analysis</i> , 2014, 76, 132-143.	0.7	52
32	Fast fingerprint identification for large databases. <i>Pattern Recognition</i> , 2014, 47, 588-602.	5.1	51
33	An Overview of E-Learning in Cloud Computing. <i>Advances in Intelligent Systems and Computing</i> , 2012, , 35-46.	0.5	49
34	A High Performance Fingerprint Matching System for Large Databases Based on GPU. <i>IEEE Transactions on Information Forensics and Security</i> , 2014, 9, 62-71.	4.5	43
35	A survey of fingerprint classification Part II: Experimental analysis and ensemble proposal. <i>Knowledge-Based Systems</i> , 2015, 81, 98-116.	4.0	40
36	Multivariate Discretization Based on Evolutionary Cut Points Selection for Classification. <i>IEEE Transactions on Cybernetics</i> , 2016, 46, 595-608.	6.2	39

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37	Smooth transition autoregressive models and fuzzy rule-based systems: Functional equivalence and consequences. <i>Fuzzy Sets and Systems</i> , 2007, 158, 2734-2745.	1.6	33
38	E-learning and educational data mining in cloud computing: an overview. <i>International Journal of Learning Technology</i> , 2014, 9, 25.	0.2	33
39	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.	4.0	29
40	A distributed evolutionary multivariate discretizer for Big Data processing on Apache Spark. <i>Swarm and Evolutionary Computation</i> , 2018, 38, 240-250.	4.5	29
41	A Forecasting Methodology for Workload Forecasting in Cloud Systems. <i>IEEE Transactions on Cloud Computing</i> , 2018, 6, 929-941.	3.1	28
42	Minutiae filtering to improve both efficacy and efficiency of fingerprint matching algorithms. <i>Engineering Applications of Artificial Intelligence</i> , 2014, 32, 37-53.	4.3	27
43	Distributed FastShapelet Transform: a Big Data time series classification algorithm. <i>Information Sciences</i> , 2019, 496, 451-463.	4.0	27
44	On the stopping criteria for k-Nearest Neighbor in positive unlabeled time series classification problems. <i>Information Sciences</i> , 2016, 328, 42-59.	4.0	26
45	Minutiae-based fingerprint matching decomposition: Methodology for big data frameworks. <i>Information Sciences</i> , 2017, 408, 198-212.	4.0	26
46	A high performance memetic algorithm for extremely high-dimensional problems. <i>Information Sciences</i> , 2015, 293, 35-58.	4.0	25
47	Fast fingerprint identification using GPUs. <i>Information Sciences</i> , 2015, 301, 195-214.	4.0	22
48	GPU-SME- k NN: Scalable and memory efficient k NN and lazy learning using GPUs. <i>Information Sciences</i> , 2016, 373, 165-182.	4.0	22
49	Financial time series forecasting with a bio-inspired fuzzy model. <i>Expert Systems With Applications</i> , 2012, 39, 12302-12309.	4.4	21
50	Multiobjective Optimization for Railway Maintenance Plans. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, .	2.5	21
51	Evolutionary parallel and gradually distributed lateral tuning of fuzzy rule-based systems. <i>Evolutionary Intelligence</i> , 2009, 2, 5-19.	2.3	20
52	Analysis of Data Preprocessing Increasing the Oversampling Ratio for Extremely Imbalanced Big Data Classification. , 2015, , .		19
53	Distributed Entropy Minimization Discretizer for Big Data Analysis under Apache Spark. , 2015, , .		17
54	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.	11.7	17

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55	Self-labeling techniques for semi-supervised time series classification: an empirical study. Knowledge and Information Systems, 2018, 55, 493-528.	2.1	17
56	SMOTE-GPU: Big Data preprocessing on commodity hardware for imbalanced classification. Progress in Artificial Intelligence, 2017, 6, 347-354.	1.5	16
57	Equivalences Between Neural-Autoregressive Time Series Models and Fuzzy Systems. IEEE Transactions on Neural Networks, 2010, 21, 1434-1444.	4.8	15
58	On the use of MapReduce to build linguistic fuzzy rule based classification systems for big data. , 2014, , .		15
59	Segmentation of cervical cell images using mean-shift filtering and morphological operators. Proceedings of SPIE, 2010, , .	0.8	14
60	Learning from data using the R package "FRBS". , 2014, , .		14
61	Memetic Algorithms with Local Search Chains in R: The Rmalschains Package. Journal of Statistical Software, 2016, 75, .	1.8	13
62	Feature Selection for Time Series Forecasting: A Case Study. , 2008, , .		12
63	Time Series Modeling and Forecasting Using Memetic Algorithms for Regime-Switching Models. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1841-1847.	7.2	12
64	Multivariate times series classification through an interpretable representation. Information Sciences, 2021, 569, 596-614.	4.0	12
65	Linearity testing for fuzzy rule-based models. Fuzzy Sets and Systems, 2010, 161, 1836-1851.	1.6	11
66	A neuro-fuzzy approach for feature selection. , 0, , .		9
67	Empirical Study of Feature Selection Methods in Classification. , 2008, , .		9
68	Relationship between middle hitter and setterâ€™s position and its influence on the attack zone in elite menâ€™s volleyball. International Journal of Performance Analysis in Sport, 2016, 16, 523-538.	0.5	8
69	C-FOCUS: A continuous extension of FOCUS. , 2003, , 225-232.		7
70	TESTING FOR REMAINING AUTOCORRELATION OF THE RESIDUALS IN THE FRAMEWORK OF FUZZY RULE-BASED TIME SERIES MODELLING. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2010, 18, 371-387.	0.9	6
71	Forecaster performance evaluation with cross-validation and variants. , 2011, , .		6
72	Special issue on Hybrid Fuzzy Models. International Journal of Hybrid Intelligent Systems, 2010, 7, 1-1.	0.9	5

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73	A test for the homoscedasticity of the residuals in fuzzy rule-based forecasters. <i>Applied Intelligence</i> , 2011, 34, 386-393.	3.3	5
74	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.	0.8	5
75	Knowledge-based Minimization of Railway Infrastructures Environmental Impact. <i>Transportation Research Procedia</i> , 2016, 14, 840-849.	0.8	5
76	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.	0.6	5
77	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.	0.5	4
78	Linguistic OWA and two time-windows based fault identification in wide plants. <i>Computers and Chemical Engineering</i> , 2018, 115, 412-430.	2.0	4
79	Delivering Data Mining Services in Cloud Computing. , 2019, , .		4
80	Semantics of Data Mining Services in Cloud Computing. <i>IEEE Transactions on Services Computing</i> , 2022, 15, 945-955.	3.2	4
81	Fuzzy Systems-as-a-Service in Cloud Computing. <i>International Journal of Computational Intelligence Systems</i> , 2019, 12, 1162.	1.6	4
82	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.	1.6	4
83	FRASel: a consensus of feature ranking methods for time series modelling. <i>Soft Computing</i> , 2013, 17, 1489-1510.	2.1	3
84	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.	1.6	3
85	Ability to Predict Side-Out Performance by the Setter's Action Range with First Tempo Availability in Top European Male and Female Teams. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 6326.	1.2	2
86	Empirical Study of Individual Feature Evaluators and Cutting Criteria for Feature Selection in Classification. , 2009, , .		1
87	Testing for Serial Independence of the Residuals in the Framework of Fuzzy Rule-Based Time Series Modeling. , 2009, , .		1
88	Fuzzy Autoregressive Rules: Towards Linguistic Time Series Modeling. <i>Econometric Reviews</i> , 2011, 30, 646-668.	0.5	1
89	On the Identifiability of TSK Additive Fuzzy Rule-Based Models. , 2006, , 79-86.		1
90	On the Use of Distributed Genetic Algorithms for the Tuning of Fuzzy Rule Based-Systems. <i>Studies in Computational Intelligence</i> , 2010, , 235-261.	0.7	1

#	ARTICLE	IF	CITATIONS
91	Rango de acción del colocador como indicador de rendimiento en voleibol masculino. Revista Internacional De Medicina Y Ciencias De La Actividad Fisica Y Del Deporte, 2022, 22, 169-182.	0.1	1
92	Multicriteria Genetic Tuning for the Optimization and Control of HVAC Systems. Studies in Fuzziness and Soft Computing, 2003, , 308-345.	0.6	0
93	Guest editorial: special issue on "Intelligent Systems, Design and Applications (ISDA™2009)" Soft Computing, 2011, 15, 1879-1880.	2.1	0
94	The Links between Statistical and Fuzzy Models for Time Series Analysis and Forecasting. Intelligent Systems Reference Library, 2013, , 1-30.	1.0	0
95	Use of Artificial Neural Network-based Equation for estimating VO2max in adolescents. Medicine and Science in Sports and Exercise, 2008, 40, S197.	0.2	0
96	Optimization of Neuro-Coefficient Smooth Transition Autoregressive Models Using Differential Evolution. Lecture Notes in Computer Science, 2012, , 464-473.	1.0	0
97	A Wrapper Evolutionary Approach for Supervised Multivariate Discretization: A Case Study on Decision Trees. Advances in Intelligent Systems and Computing, 2016, , 47-58.	0.5	0
98	Open Calculator for Environmental and Social Footprints of Rail Infrastructures. Progress in IS, 2017, , 237-249.	0.5	0
99	A Proposal for the Specification of Data Mining Services in Cloud Computing. , 2018, , .		0