

Jesus Ariel Carrasco-Ochoa

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

2,251
citations

279778

23
h-index

243610

44
g-index

121
all docs

121
docs citations

121
times ranked

1996
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of unsupervised feature selection methods. <i>Artificial Intelligence Review</i> , 2020, 53, 907-948.	15.7	340
2	A review of instance selection methods. <i>Artificial Intelligence Review</i> , 2010, 34, 133-143.	15.7	284
3	Study of the impact of resampling methods for contrast pattern based classifiers in imbalanced databases. <i>Neurocomputing</i> , 2016, 175, 935-947.	5.9	143
4	A new fast prototype selection method based on clustering. <i>Pattern Analysis and Applications</i> , 2010, 13, 131-141.	4.6	139
5	A new hybrid filter wrapper feature selection method for clustering based on ranking. <i>Neurocomputing</i> , 2016, 214, 866-880.	5.9	102
6	Assessment and prediction of air quality using fuzzy logic and autoregressive models. <i>Atmospheric Environment</i> , 2012, 60, 37-50.	4.1	78
7	Water quality assessment in shrimp culture using an analytical hierarchical process. <i>Ecological Indicators</i> , 2013, 29, 148-158.	6.3	63
8	PBC4cip: A new contrast pattern-based classifier for class imbalance problems. <i>Knowledge-Based Systems</i> , 2017, 115, 100-109.	7.1	59
9	A new Unsupervised Spectral Feature Selection Method for mixed data: A filter approach. <i>Pattern Recognition</i> , 2017, 72, 314-326.	8.1	53
10	Immediate water quality assessment in shrimp culture using fuzzy inference systems. <i>Expert Systems With Applications</i> , 2012, 39, 10571-10582.	7.6	52
11	General framework for class-specific feature selection. <i>Expert Systems With Applications</i> , 2011, 38, 10018-10024.	7.6	44
12	LCMine: An efficient algorithm for mining discriminative regularities and its application in supervised classification. <i>Pattern Recognition</i> , 2010, 43, 3025-3034.	8.1	40
13	A survey of emerging patterns for supervised classification. <i>Artificial Intelligence Review</i> , 2014, 42, 705-721.	15.7	34
14	A review of conceptual clustering algorithms. <i>Artificial Intelligence Review</i> , 2019, 52, 1267-1296.	15.7	34
15	OClustR: A new graph-based algorithm for overlapping clustering. <i>Neurocomputing</i> , 2013, 121, 234-247.	5.9	31
16	Mining frequent patterns and association rules using similarities. <i>Expert Systems With Applications</i> , 2013, 40, 6823-6836.	7.6	30
17	Fuzzy emerging patterns for classifying hard domains. <i>Knowledge and Information Systems</i> , 2011, 28, 473-489.	3.2	29
18	An Explainable Artificial Intelligence Model for Clustering Numerical Databases. <i>IEEE Access</i> , 2020, 8, 52370-52384.	4.2	29

#	ARTICLE	IF	CITATIONS
19	Mining patterns for clustering on numerical datasets using unsupervised decision trees. Knowledge-Based Systems, 2015, 82, 70-79.	7.1	28
20	Finding the best diversity generation procedures for mining contrast patterns. Expert Systems With Applications, 2015, 42, 4859-4866.	7.6	28
21	An Empirical Study of Oversampling and Undersampling for Instance Selection Methods on Imbalance Datasets. Lecture Notes in Computer Science, 2013, , 262-269.	1.3	28
22	InstanceRank based on borders for instance selection. Pattern Recognition, 2013, 46, 365-375.	8.1	26
23	On the relation between rough set reducts and typical testors. Information Sciences, 2015, 294, 152-163.	6.9	25
24	SMOTE-D a Deterministic Version of SMOTE. Lecture Notes in Computer Science, 2016, , 177-188.	1.3	21
25	An algorithm based on density and compactness for dynamic overlapping clustering. Pattern Recognition, 2013, 46, 3040-3055.	8.1	20
26	Effect of class imbalance on quality measures for contrast patterns: An experimental study. Information Sciences, 2016, 374, 179-192.	6.9	17
27	Evaluation of quality measures for contrast patterns by using unseen objects. Expert Systems With Applications, 2017, 83, 104-113.	7.6	17
28	CAR-NF: A classifier based on specific rules with high netconf. Intelligent Data Analysis, 2012, 16, 49-68.	0.9	16
29	Mining maximal frequent patterns in a single graph using inexact matching. Knowledge-Based Systems, 2014, 66, 166-177.	7.1	16
30	Closed frequent similar pattern mining: Reducing the number of frequent similar patterns without information loss. Expert Systems With Applications, 2018, 96, 271-283.	7.6	16
31	Cost-Sensitive Pattern-Based classification for Class Imbalance problems. IEEE Access, 2019, 7, 60411-60427.	4.2	16
32	Building fast decision trees from large training sets. Intelligent Data Analysis, 2012, 16, 649-664.	0.9	15
33	An Empirical Study of Oversampling and Undersampling Methods for LCMine an Emerging Pattern Based Classifier. Lecture Notes in Computer Science, 2013, , 264-273.	1.3	13
34	Mining Frequent Connected Subgraphs Reducing the Number of Candidates. Lecture Notes in Computer Science, 2008, , 365-376.	1.3	12
35	Full duplicate candidate pruning for frequent connected subgraph mining. Integrated Computer-Aided Engineering, 2010, 17, 211-225.	4.6	12
36	Fast k most similar neighbor classifier for mixed data (tree k-MSN). Pattern Recognition, 2010, 43, 873-886.	8.1	11

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37	RP-Miner: a relaxed prune algorithm for frequent similar pattern mining. Knowledge and Information Systems, 2011, 27, 451-471.	3.2	11
38	A fast hardware software platform for computing irreducible testors. Expert Systems With Applications, 2015, 42, 9612-9619.	7.6	11
39	A new algorithm for computing reducts based on the binary discernibility matrix. Intelligent Data Analysis, 2016, 20, 317-337.	0.9	11
40	Gate Detection for Micro Aerial Vehicles using a Single Shot Detector. IEEE Latin America Transactions, 2019, 17, 2045-2052.	1.6	11
41	Decision tree induction using a fast splitting attribute selection for large datasets. Expert Systems With Applications, 2011, 38, 14290-14290.	7.6	10
42	Hardware-Software platform for computing irreducible testors. Expert Systems With Applications, 2012, 39, 2203-2210.	7.6	10
43	An empirical comparison among quality measures for pattern based classifiers. Intelligent Data Analysis, 2014, 18, S5-S17.	0.9	10
44	AGraP: an algorithm for mining frequent patterns in a single graph using inexact matching. Knowledge and Information Systems, 2015, 44, 385-406.	3.2	10
45	A Pattern-Based Approach for Detecting Pneumatic Failures on Temporary Immersion Bioreactors. Sensors, 2019, 19, 414.	3.8	10
46	Deterministic oversampling methods based on SMOTE. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4945-4955.	1.4	10
47	An improved algorithm for partial clustering. Expert Systems With Applications, 2019, 121, 282-291.	7.6	10
48	Using Maximum Similarity Graphs to Edit Nearest Neighbor Classifiers. Lecture Notes in Computer Science, 2009, , 489-496.	1.3	10
49	Improving graph-based image classification by using emerging patterns as attributes. Engineering Applications of Artificial Intelligence, 2016, 50, 215-225.	8.1	9
50	A new algorithm for reduct computation based on gap elimination and attribute contribution. Information Sciences, 2018, 435, 111-123.	6.9	9
51	A New Emerging Pattern Mining Algorithm and Its Application in Supervised Classification. Lecture Notes in Computer Science, 2010, , 150-157.	1.3	9
52	An Oversampling Method for Class Imbalance Problems on Large Datasets. Applied Sciences (Switzerland), 2022, 12, 3424.	2.5	9
53	Prototype selection based on sequential search. Intelligent Data Analysis, 2009, 13, 599-631.	0.9	7
54	A new algorithm for approximate pattern mining in multi-graph collections. Knowledge-Based Systems, 2016, 109, 198-207.	7.1	7

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55	Nested Dichotomies Based on Clustering. Lecture Notes in Computer Science, 2012, , 162-169.	1.3	7
56	Mining Frequent Similar Patterns on Mixed Data. Lecture Notes in Computer Science, 2008, , 136-144.	1.3	6
57	Algorithms for mining frequent itemsets in static and dynamic datasets. Intelligent Data Analysis, 2010, 14, 419-435.	0.9	6
58	A dynamic clustering algorithm for building overlapping clusters. Intelligent Data Analysis, 2012, 16, 211-232.	0.9	6
59	A new algorithm for mining frequent connected subgraphs based on adjacency matrices. Intelligent Data Analysis, 2010, 14, 385-403.	0.9	5
60	Hybrid feature selection method for biomedical datasets. , 2012, , .		5
61	Mining patterns for clustering using unsupervised decision trees. Intelligent Data Analysis, 2015, 19, 1297-1310.	0.9	5
62	Extension of Canonical Adjacency Matrices for Frequent Approximate Subgraph Mining on Multi-Graph Collections. International Journal of Pattern Recognition and Artificial Intelligence, 2017, 31, 1750025.	1.2	5
63	Class-Specific Reducts vs. Classic Reducts in a Rule-Based Classifier: A Case Study. Lecture Notes in Computer Science, 2018, , 23-30.	1.3	5
64	Cascading an Emerging Pattern Based Classifier. Lecture Notes in Computer Science, 2010, , 240-249.	1.3	5
65	Classification based on specific rules and inexact coverage. Expert Systems With Applications, 2012, 39, 11203-11211.	7.6	4
66	Accurate and fast prototype selection based on the notion of relevant and border prototypes. Journal of Intelligent and Fuzzy Systems, 2018, 34, 2923-2934.	1.4	4
67	Mining Generalized Closed Patterns from Multi-graph Collections. Lecture Notes in Computer Science, 2018, , 10-18.	1.3	4
68	New Dissimilarity Measures for Ultraviolet Spectra Identification. Lecture Notes in Computer Science, 2010, , 220-229.	1.3	4
69	New Penalty Scheme for Optimal Subsequence Bijection. Lecture Notes in Computer Science, 2013, , 206-213.	1.3	4
70	Combining hybrid rule ordering strategies based on netconf and a novel satisfaction mechanism for CAR-based classifiers. Intelligent Data Analysis, 2014, 18, S89-S100.	0.9	3
71	Linear model optimizer vs Neural Networks: A comparison for improving the quality and saving of LED-Lighting control systems. , 2016, , .		3
72	Improved Hieroglyph Representation for Image Retrieval. Journal on Computing and Cultural Heritage, 2019, 12, 1-15.	2.1	3

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73	Mining clique frequent approximate subgraphs from multi-graph collections. Applied Intelligence, 2020, 50, 878-892.	5.3	3
74	A New Method Based on Graph Transformation for FAS Mining in Multi-graph Collections. Lecture Notes in Computer Science, 2015, , 13-22.	1.3	3
75	Taking Advantage of Class-Specific Feature Selection. Lecture Notes in Computer Science, 2009, , 1-8.	1.3	3
76	Easy Categorization of Attributes in Decision Tables Based on Basic Binary Discernibility Matrix. Lecture Notes in Computer Science, 2013, , 302-310.	1.3	3
77	A Node Linkage Approach for Sequential Pattern Mining. PLoS ONE, 2014, 9, e95418.	2.5	3
78	Computing Constructs by Using Typical Testor Algorithms. Lecture Notes in Computer Science, 2015, , 44-53.	1.3	3
79	The Impact of Basic Matrix Dimension on the Performance of Algorithms for Computing Typical Testors. Lecture Notes in Computer Science, 2018, , 41-50.	1.3	3
80	Classifying Using Specific Rules with High Confidence. , 2010, , .		2
81	Combining Techniques to Find the Number of Bins for Discretization. , 2013, , .		2
82	Detecting Pneumatic Failures on Temporary Immersion Bioreactors. Lecture Notes in Computer Science, 2016, , 293-302.	1.3	2
83	Extensions to AGraP Algorithm for Finding a Reduced Set of Inexact Graph Patterns. International Journal of Pattern Recognition and Artificial Intelligence, 2018, 32, 1860012.	1.2	2
84	Bag of k-nearest visual words for hieroglyph retrieval. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4981-4990.	1.4	2
85	Frequent similar pattern mining using non Boolean similarity functions. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4931-4944.	1.4	2
86	Are Reducts and Typical Testors the Same?. Lecture Notes in Computer Science, 2014, , 294-301.	1.3	2
87	Graph Clustering via Inexact Patterns. Lecture Notes in Computer Science, 2014, , 391-398.	1.3	2
88	A New Overlapping Clustering Algorithm Based on Graph Theory. Lecture Notes in Computer Science, 2013, , 61-72.	1.3	2
89	Feature Space Reduction for Graph-Based Image Classification. Lecture Notes in Computer Science, 2013, , 246-253.	1.3	2
90	Duplicate Candidate Elimination and Fast Support Calculation for Frequent Subgraph Mining. Lecture Notes in Computer Science, 2009, , 292-299.	1.3	2

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91	Algorithm for computing all the shortest reducts based on a new pruning strategy. Information Sciences, 2022, 585, 113-126.	6.9	2
92	Sensitivity analysis of fuzzy Goldman typical testors. Fuzzy Sets and Systems, 2004, 141, 241-257.	2.7	1
93	Genetic Algorithm for Multidimensional Scaling over Mixed and Incomplete Data. Lecture Notes in Computer Science, 2012, , 226-235.	1.3	1
94	Information Retrieval Based on a Query Document Using Maximal Frequent Sequences. , 2013, , .		1
95	A Different Approach for Pruning Micro-clusters in Data Stream Clustering. Lecture Notes in Computer Science, 2015, , 33-43.	1.3	1
96	A Glance to the Goldman's Testors from the Point of View of Rough Set Theory. Lecture Notes in Computer Science, 2016, , 189-197.	1.3	1
97	Revisiting two-stage feature selection based on coverage policies for text classification. Journal of Intelligent and Fuzzy Systems, 2018, 34, 2949-2957.	1.4	1
98	A Novel Contrast Pattern Selection Method for Class Imbalance Problems. Lecture Notes in Computer Science, 2017, , 42-52.	1.3	1
99	Using Non Boolean Similarity Functions for Frequent Similar Pattern Mining. Lecture Notes in Computer Science, 2010, , 374-378.	1.3	1
100	Including Foreground and Background Information in Maya Hieroglyph Representation. Lecture Notes in Computer Science, 2018, , 238-247.	1.3	1
101	On the Use of Constructs for Rule-Based Classification: A Case Study. Lecture Notes in Computer Science, 2019, , 327-335.	1.3	1
102	Encoding hieroglyph segments to represent hieroglyphs following the bag of visual word model for retrieval. Expert Systems With Applications, 2022, 201, 116983.	7.6	1
103	Data Preprocessing by Sequential Pattern Mining for LZW. , 0, , .		0
104	Correlation of Resampling Methods for Contrast Pattern Based Classifiers. Lecture Notes in Computer Science, 2015, , 93-102.	1.3	0
105	Experimental Comparison of Oversampling Methods for Mixed Datasets. Lecture Notes in Computer Science, 2021, , 78-88.	1.3	0
106	Designing RBFNNs Using Prototype Selection. Lecture Notes in Computer Science, 2010, , 189-198.	1.3	0
107	A Modification of the Lernmatrix for Real Valued Data Processing. Lecture Notes in Computer Science, 2012, , 487-494.	1.3	0
108	CAR-NF: An Improved Version of CAR-NF Classifier. Lecture Notes in Computer Science, 2012, , 455-462.	1.3	0

#	ARTICLE	IF	CITATIONS
109	Prototype Selection for Graph Embedding Using Instance Selection. Lecture Notes in Computer Science, 2015, , 84-92.	1.3	0
110	COMPRESIÃO DE IMÁGENES SIN PÊRDIDA USANDO CLASIFICADOR 1-NN PARA ADAPTAR LOS COEFICIENTES DE FILTROS LIFTING. Dyna (Spain), 2017, 92, 143-143.	0.2	0
111	Multi-graph Frequent Approximate Subgraph Mining for Image Clustering. Lecture Notes in Computer Science, 2018, , 133-140.	1.3	0