Jesus Ariel Carrasco-Ochoa

List of Publications by Year in Descending Order

112 papers	1,484 citations	20 h-index	35 g-index
121 ext. papers	1,851 ext. citations	3.2 avg, IF	5.19 L-index

#	Paper	IF	Citations
112	Algorithm for computing all the shortest reducts based on a new pruning strategy. *Information Sciences*, **2022**, 585, 113-126	7.7	
111	An Oversampling Method for Class Imbalance Problems on Large Datasets. *Applied Sciences (Switzerland)*, **2022**, 12, 3424	2.6	1
110	Encoding hieroglyph segments to represent hieroglyphs following the bag of visual word model for retrieval. *Expert Systems With Applications*, **2022**, 116983	7.8	
109	Experimental Comparison of Oversampling Methods for Mixed Datasets. *Lecture Notes in Computer Science*, **2021**, 78-88	0.9	
108	An Explainable Artificial Intelligence Model for Clustering Numerical Databases. *IEEE Access*, **2020**, 8, 52370-52384	3.5	18
107	Towards Selecting Reducts for Building Decision Rules for Rule-Based Classifiers. *Lecture Notes in Computer Science*, **2020**, 67-75	0.9	1
106	Mining clique frequent approximate subgraphs from multi-graph collections. *Applied Intelligence*, **2020**, 50, 878-892	4.9	1
105	A review of unsupervised feature selection methods. *Artificial Intelligence Review*, **2020**, 53, 907-948	9.7	131
104	A Pattern-Based Approach for Detecting Pneumatic Failures on Temporary Immersion Bioreactors. *Sensors*, **2019**, 19,	3.8	10
103	Improved Hieroglyph Representation for Image Retrieval. *Journal on Computing and Cultural Heritage*, **2019**, 12, 1-15	1.8	2
102	Bag of k-nearest visual words for hieroglyph retrieval. *Journal of Intelligent and Fuzzy Systems*, **2019**, 36, 4981-4990	1.6	1
101	Frequent similar pattern mining using non Boolean similarity functions. *Journal of Intelligent and Fuzzy Systems*, **2019**, 36, 4931-4944	1.6	0
100	Deterministic oversampling methods based on SMOTE. *Journal of Intelligent and Fuzzy Systems*, **2019**, 36, 4945-4955	1.6	5
99	Cost-Sensitive Pattern-Based classification for Class Imbalance problems. *IEEE Access*, **2019**, 7, 60411-60427	3.5	12
98	On the Use of Constructs for Rule-Based Classification: A Case Study. *Lecture Notes in Computer Science*, **2019**, 327-335	0.9	1
97	Gate Detection for Micro Aerial Vehicles using a Single Shot Detector. *IEEE Latin America Transactions*, **2019**, 17, 2045-2052	0.7	8
96	An improved algorithm for partial clustering. *Expert Systems With Applications*, **2019**, 121, 282-291	7.8	5

95	A review of conceptual clustering algorithms. *Artificial Intelligence Review*, **2019**, 52, 1267-1296	9.7	14
94	A new algorithm for reduct computation based on gap elimination and attribute contribution. *Information Sciences*, **2018**, 435, 111-123	7.7	6
93	Accurate and fast prototype selection based on the notion of relevant and border prototypes. *Journal of Intelligent and Fuzzy Systems*, **2018**, 34, 2923-2934	1.6	3
92	Revisiting two-stage feature selection based on coverage policies for text classification. *Journal of Intelligent and Fuzzy Systems*, **2018**, 34, 2949-2957	1.6	0
91	Including Foreground and Background Information in Maya Hieroglyph Representation. *Lecture Notes in Computer Science*, **2018**, 238-247	0.9	
90	Multi-graph Frequent Approximate Subgraph Mining for Image Clustering. *Lecture Notes in Computer Science*, **2018**, 133-140	0.9	
89	The Impact of Basic Matrix Dimension on the Performance of Algorithms for Computing Typical Testors. *Lecture Notes in Computer Science*, **2018**, 41-50	0.9	1
88	Mining Generalized Closed Patterns from Multi-graph Collections. *Lecture Notes in Computer Science*, **2018**, 10-18	0.9	4
87	Class-Specific Reducts vs. Classic Reducts in a Rule-Based Classifier: A Case Study. *Lecture Notes in Computer Science*, **2018**, 23-30	0.9	4
86	Closed frequent similar pattern mining: Reducing the number of frequent similar patterns without information loss. *Expert Systems With Applications*, **2018**, 96, 271-283	7.8	9
85	Extensions to AGraP Algorithm for Finding a Reduced Set of Inexact Graph Patterns. *International Journal of Pattern Recognition and Artificial Intelligence*, **2018**, 32, 1860012	1.1	2
84	Image Clustering Based on Frequent Approximate Subgraph Mining. *Lecture Notes in Computer Science*, **2018**, 189-198	0.9	2
83	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	1.1	3
82	Evaluation of quality measures for contrast patterns by using unseen objects. *Expert Systems With Applications*, **2017**, 83, 104-113	7.8	16
81	A new Unsupervised Spectral Feature Selection Method for mixed data: A filter approach. *Pattern Recognition*, **2017**, 72, 314-326	7.7	34
80	PBC4cip: A new contrast pattern-based classifier for class imbalance problems. *Knowledge-Based Systems*, **2017**, 115, 100-109	7.3	49
79	A Novel Contrast Pattern Selection Method for Class Imbalance Problems. *Lecture Notes in Computer Science*, **2017**, 42-52	0.9	1
78	A new algorithm for approximate pattern mining in multi-graph collections. *Knowledge-Based Systems*, **2016**, 109, 198-207	7.3	6

77	A Glance to the Goldman Testors from the Point of View of Rough Set Theory. *Lecture Notes in Computer Science*, **2016**, 189-197	0.9	1
76	Detecting Pneumatic Failures on Temporary Immersion Bioreactors. *Lecture Notes in Computer Science*, **2016**, 293-302	0.9	2
75	Study of the impact of resampling methods for contrast pattern based classifiers in imbalanced databases. *Neurocomputing*, **2016**, 175, 935-947	5.4	94
74	Improving graph-based image classification by using emerging patterns as attributes. *Engineering Applications of Artificial Intelligence*, **2016**, 50, 215-225	7.2	6
73	A new algorithm for computing reducts based on the binary discernibility matrix. *Intelligent Data Analysis*, **2016**, 20, 317-337	1.1	6
72	SMOTE-D a Deterministic Version of SMOTE. *Lecture Notes in Computer Science*, **2016**, 177-188	0.9	8
71	Linear model optimizer vs Neural Networks: A comparison for improving the quality and saving of LED-Lighting control systems **2016**,		1
70	Effect of class imbalance on quality measures for contrast patterns: An experimental study. *Information Sciences*, **2016**, 374, 179-192	7.7	17
69	A new hybrid filter-wrapper feature selection method for clustering based on ranking. *Neurocomputing*, **2016**, 214, 866-880	5.4	61
68	Mining patterns for clustering on numerical datasets using unsupervised decision trees. *Knowledge-Based Systems*, **2015**, 82, 70-79	7.3	25
67	Finding the best diversity generation procedures for mining contrast patterns. *Expert Systems With Applications*, **2015**, 42, 4859-4866	7.8	22
66	A Different Approach for Pruning Micro-clusters in Data Stream Clustering. *Lecture Notes in Computer Science*, **2015**, 33-43	0.9	1
65	On the relation between rough set reducts and typical testors. *Information Sciences*, **2015**, 294, 152-163	7.7	20
64	AGraP: an algorithm for mining frequent patterns in a single graph using inexact matching. *Knowledge and Information Systems*, **2015**, 44, 385-406	2.4	10
63	Mining patterns for clustering using unsupervised decision trees. *Intelligent Data Analysis*, **2015**, 19, 1297-1310	1.1	4
62	A fast hardware software platform for computing irreducible testors. *Expert Systems With Applications*, **2015**, 42, 9612-9619	7.8	8
61	Correlation of Resampling Methods for Contrast Pattern Based Classifiers. *Lecture Notes in Computer Science*, **2015**, 93-102	0.9	
60	A New Method Based on Graph Transformation for FAS Mining in Multi-graph Collections. *Lecture Notes in Computer Science*, **2015**, 13-22	0.9	3

59	Prototype Selection for Graph Embedding Using Instance Selection. *Lecture Notes in Computer Science*, **2015**, 84-92	0.9	
58	Computing Constructs by Using Typical Testor Algorithms. *Lecture Notes in Computer Science*, **2015**, 44-53	0.9	2
57	Mining maximal frequent patterns in a single graph using inexact matching. *Knowledge-Based Systems*, **2014**, 66, 166-177	7.3	15
56	A survey of emerging patterns for supervised classification. *Artificial Intelligence Review*, **2014**, 42, 705-721	3.7	26
55	An empirical comparison among quality measures for pattern based classifiers. *Intelligent Data Analysis*, **2014**, 18, S5-S17	1.1	8
54	Combining hybrid rule ordering strategies based on netconf and a novel satisfaction mechanism for CAR-based classifiers. *Intelligent Data Analysis*, **2014**, 18, S89-S100	1.1	3
53	Are Reducts and Typical Testors the Same?. *Lecture Notes in Computer Science*, **2014**, 294-301	0.9	1
52	Graph Clustering via Inexact Patterns. *Lecture Notes in Computer Science*, **2014**, 391-398	0.9	2
51	A node linkage approach for sequential pattern mining. *PLoS ONE*, **2014**, 9, e95418	3.7	1
50	Water quality assessment in shrimp culture using an analytical hierarchical process. *Ecological Indicators*, **2013**, 29, 148-158	5.8	42
49	Mining frequent patterns and association rules using similarities. *Expert Systems With Applications*, **2013**, 40, 6823-6836	7.8	23
48	An algorithm based on density and compactness for dynamic overlapping clustering. *Pattern Recognition*, **2013**, 46, 3040-3055	7.7	18
47	OClustR: A new graph-based algorithm for overlapping clustering. *Neurocomputing*, **2013**, 121, 234-247	5.4	23
46	InstanceRank based on borders for instance selection. *Pattern Recognition*, **2013**, 46, 365-375	7.7	20
45	Combining Techniques to Find the Number of Bins for Discretization **2013**,		2
44	A New Overlapping Clustering Algorithm Based on Graph Theory. *Lecture Notes in Computer Science* , **2013**, 61-72	0.9	2
43	An Empirical Study of Oversampling and Undersampling Methods for LCMine an Emerging Pattern Based Classifier. *Lecture Notes in Computer Science*, **2013**, 264-273	0.9	11
42	New Penalty Scheme for Optimal Subsequence Bijection. *Lecture Notes in Computer Science*, **2013**, 206-213	0.9	4

41	Feature Space Reduction for Graph-Based Image Classification. *Lecture Notes in Computer Science*, **2013**, 246-253	0.9	1
40	An Empirical Study of Oversampling and Undersampling for Instance Selection Methods on Imbalance Datasets. *Lecture Notes in Computer Science*, **2013**, 262-269	0.9	23
39	Easy Categorization of Attributes in Decision Tables Based on Basic Binary Discernibility Matrix. *Lecture Notes in Computer Science*, **2013**, 302-310	0.9	1
38	Comparing Quality Measures for Contrast Pattern Classifiers. *Lecture Notes in Computer Science*, **2013**, 311-318	0.9	3
37	HardwareSoftware platform for computing irreducible testors. *Expert Systems With Applications*, **2012**, 39, 2203-2210	7.8	9
36	Immediate water quality assessment in shrimp culture using fuzzy inference systems. *Expert Systems With Applications*, **2012**, 39, 10571-10582	7.8	37
35	Classification based on specific rules and inexact coverage. *Expert Systems With Applications*, **2012**, 39, 11203-11211	7.8	4
34	Hybrid feature selection method for biomedical datasets **2012**,		2
33	Genetic Algorithm for Multidimensional Scaling over Mixed and Incomplete Data. *Lecture Notes in Computer Science*, **2012**, 226-235	0.9	0
32	Assessment and prediction of air quality using fuzzy logic and autoregressive models. *Atmospheric Environment*, **2012**, 60, 37-50	5.3	52
31	CAR-NF: A classifier based on specific rules with high netconf. *Intelligent Data Analysis*, **2012**, 16, 49-68	1.1	15
30	Building fast decision trees from large training sets. *Intelligent Data Analysis*, **2012**, 16, 649-664	1.1	11
29	A dynamic clustering algorithm for building overlapping clusters. *Intelligent Data Analysis*, **2012**, 16, 211-232	1.1	4
28	A New Document Author Representation for Authorship Attribution. *Lecture Notes in Computer Science*, **2012**, 283-292	0.9	2
27	Nested Dichotomies Based on Clustering. *Lecture Notes in Computer Science*, **2012**, 162-169	0.9	4
26	A Modification of the Lernmatrix for Real Valued Data Processing. *Lecture Notes in Computer Science*, **2012**, 487-494	0.9	
25	CAR-NF + : An Improved Version of CAR-NF Classifier. *Lecture Notes in Computer Science*, **2012**, 455-462	0.9	
24	RP-Miner: a relaxed prune algorithm for frequent similar pattern mining. *Knowledge and Information Systems*, **2011**, 27, 451-471	2.4	9

23	Fuzzy emerging patterns for classifying hard domains. *Knowledge and Information Systems*, **2011**, 28, 473-489	2.4	26
22	Decision tree induction using a fast splitting attribute selection for large datasets. *Expert Systems With Applications*, **2011**, 38, 14290-14290	7.8	6
21	General framework for class-specific feature selection. *Expert Systems With Applications*, **2011**, 38, 10018-10024	7.8	33
20	A new algorithm for mining frequent connected subgraphs based on adjacency matrices. *Intelligent Data Analysis*, **2010**, 14, 385-403	1.1	4
19	Algorithms for mining frequent itemsets in static and dynamic datasets. *Intelligent Data Analysis*, **2010**, 14, 419-435	1.1	4
18	Full duplicate candidate pruning for frequent connected subgraph mining. *Integrated Computer-Aided Engineering*, **2010**, 17, 211-225	5.2	12
17	Fast k most similar neighbor classifier for mixed data (tree k-MSN). *Pattern Recognition*, **2010**, 43, 873-886	7.7	6
16	A new fast prototype selection method based on clustering. *Pattern Analysis and Applications*, **2010**, 13, 131-141	2.3	93
15	A review of instance selection methods. *Artificial Intelligence Review*, **2010**, 34, 133-143	9.7	205
14	LCMine: An efficient algorithm for mining discriminative regularities and its application in supervised classification. *Pattern Recognition*, **2010**, 43, 3025-3034	7.7	29
13	Using Non Boolean Similarity Functions for Frequent Similar Pattern Mining. *Lecture Notes in Computer Science*, **2010**, 374-378	0.9	1
12	A New Emerging Pattern Mining Algorithm and Its Application in Supervised Classification. *Lecture Notes in Computer Science*, **2010**, 150-157	0.9	7
11	New Dissimilarity Measures for Ultraviolet Spectra Identification. *Lecture Notes in Computer Science* , **2010**, 220-229	0.9	3
10	Cascading an Emerging Pattern Based Classifier. *Lecture Notes in Computer Science*, **2010**, 240-249	0.9	4
9	Designing RBFNNs Using Prototype Selection. *Lecture Notes in Computer Science*, **2010**, 189-198	0.9	
8	Prototype selection based on sequential search. *Intelligent Data Analysis*, **2009**, 13, 599-631	1.1	6
7	Taking Advantage of Class-Specific Feature Selection. *Lecture Notes in Computer Science*, **2009**, 1-8	0.9	2
6	Using Maximum Similarity Graphs to Edit Nearest Neighbor Classifiers. *Lecture Notes in Computer Science*, **2009**, 489-496	0.9	7

5	Finding Small Consistent Subset for the Nearest Neighbor Classifier Based on Support Graphs. *Lecture Notes in Computer Science*, **2009**, 465-472	0.9	4
4	Duplicate Candidate Elimination and Fast Support Calculation for Frequent Subgraph Mining. *Lecture Notes in Computer Science*, **2009**, 292-299	0.9	1
3	Mining Frequent Similar Patterns on Mixed Data. *Lecture Notes in Computer Science*, **2008**, 136-144	0.9	5
2	Mining Frequent Connected Subgraphs Reducing the Number of Candidates. *Lecture Notes in Computer Science*, **2008**, 365-376	0.9	6
1	Sensitivity analysis of fuzzy Goldman typical testors. *Fuzzy Sets and Systems*, **2004**, 141, 241-257	3.7	1