

# JosÃ© F MartÃ­nez-Trinidad

## List of Publications by Year in descending order

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164  
papers

2,673  
citations

236925

25  
h-index

223800

46  
g-index

184  
all docs

184  
docs citations

184  
times ranked

2134  
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 filterâ€“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	The logical combinatorial approach to pattern recognition, an overview through selected works. <i>Pattern Recognition</i> , 2001, 34, 741-751.	8.1	62
9	PBC4cip: A new contrast pattern-based classifier for class imbalance problems. <i>Knowledge-Based Systems</i> , 2017, 115, 100-109.	7.1	59
10	A new Unsupervised Spectral Feature Selection Method for mixed data: A filter approach. <i>Pattern Recognition</i> , 2017, 72, 314-326.	8.1	53
11	Immediate water quality assessment in shrimp culture using fuzzy inference systems. <i>Expert Systems With Applications</i> , 2012, 39, 10571-10582.	7.6	52
12	General framework for class-specific feature selection. <i>Expert Systems With Applications</i> , 2011, 38, 10018-10024.	7.6	44
13	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
14	A survey of emerging patterns for supervised classification. <i>Artificial Intelligence Review</i> , 2014, 42, 705-721.	15.7	34
15	A review of conceptual clustering algorithms. <i>Artificial Intelligence Review</i> , 2019, 52, 1267-1296.	15.7	34
16	OClustR: A new graph-based algorithm for overlapping clustering. <i>Neurocomputing</i> , 2013, 121, 234-247.	5.9	31
17	Structuralization of universes. <i>Fuzzy Sets and Systems</i> , 2000, 112, 485-500.	2.7	30
18	Mining frequent patterns and association rules using similarities. <i>Expert Systems With Applications</i> , 2013, 40, 6823-6836.	7.6	30

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19	Fuzzy emerging patterns for classifying hard domains. Knowledge and Information Systems, 2011, 28, 473-489.	3.2	29
20	An Explainable Artificial Intelligence Model for Clustering Numerical Databases. IEEE Access, 2020, 8, 52370-52384.	4.2	29
21	A New Algorithm for Fast Discovery of Maximal Sequential Patterns in a Document Collection. Lecture Notes in Computer Science, 2006, , 514-523.	1.3	28
22	Mining patterns for clustering on numerical datasets using unsupervised decision trees. Knowledge-Based Systems, 2015, 82, 70-79.	7.1	28
23	Finding the best diversity generation procedures for mining contrast patterns. Expert Systems With Applications, 2015, 42, 4859-4866.	7.6	28
24	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
25	InstanceRank based on borders for instance selection. Pattern Recognition, 2013, 46, 365-375.	8.1	26
26	A survey on feature selection methods for mixed data. Artificial Intelligence Review, 2022, 55, 2821-2846.	15.7	26
27	On the relation between rough set reducts and typical testors. Information Sciences, 2015, 294, 152-163.	6.9	25
28	A Supervised Filter Feature Selection method for mixed data based on Spectral Feature Selection and Information-theory redundancy analysis. Pattern Recognition Letters, 2020, 138, 321-328.	4.2	25
29	A new approach to differential diagnosis of diseases. International Journal of Bio-medical Computing, 1996, 40, 179-185.	0.5	23
30	SMOTE-D a Deterministic Version of SMOTE. Lecture Notes in Computer Science, 2016, , 177-188.	1.3	21
31	An algorithm based on density and compactness for dynamic overlapping clustering. Pattern Recognition, 2013, 46, 3040-3055.	8.1	20
32	A PSO-based algorithm for mining association rules using a guided exploration strategy. Pattern Recognition Letters, 2020, 138, 8-15.	4.2	20
33	Effect of class imbalance on quality measures for contrast patterns: An experimental study. Information Sciences, 2016, 374, 179-192.	6.9	17
34	Evaluation of quality measures for contrast patterns by using unseen objects. Expert Systems With Applications, 2017, 83, 104-113.	7.6	17
35	Extension to C-means Algorithm for the Use of Similarity Functions. Lecture Notes in Computer Science, 1999, , 354-359.	1.3	16
36	CAR-NF: A classifier based on specific rules with high netconf. Intelligent Data Analysis, 2012, 16, 49-68.	0.9	16

#	ARTICLE	IF	CITATIONS
37	Mining maximal frequent patterns in a single graph using inexact matching. Knowledge-Based Systems, 2014, 66, 166-177.	7.1	16
38	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
39	Cost-Sensitive Pattern-Based classification for Class Imbalance problems. IEEE Access, 2019, 7, 60411-60427.	4.2	16
40	Building fast decision trees from large training sets. Intelligent Data Analysis, 2012, 16, 649-664.	0.9	15
41	Prototype Selection Via Prototype Relevance. Lecture Notes in Computer Science, 2008, , 153-160.	1.3	15
42	A Fast Algorithm to Find All the Maximal Frequent Sequences in a Text. Lecture Notes in Computer Science, 2004, , 478-486.	1.3	14
43	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
44	Object Selection Based on Clustering and Border Objects. Advances in Intelligent and Soft Computing, 2007, , 27-34.	0.2	12
45	Mining Frequent Connected Subgraphs Reducing the Number of Candidates. Lecture Notes in Computer Science, 2008, , 365-376.	1.3	12
46	Full duplicate candidate pruning for frequent connected subgraph mining. Integrated Computer-Aided Engineering, 2010, 17, 211-225.	4.6	12
47	Fast k most similar neighbor classifier for mixed data (tree k-MSN). Pattern Recognition, 2010, 43, 873-886.	8.1	11
48	RP-Miner: a relaxed prune algorithm for frequent similar pattern mining. Knowledge and Information Systems, 2011, 27, 451-471.	3.2	11
49	Automatic discovery of Web Query Interfaces using machine learning techniques. Journal of Intelligent Information Systems, 2013, 40, 85-108.	3.9	11
50	A fast hardware software platform for computing irreducible testers. Expert Systems With Applications, 2015, 42, 9612-9619.	7.6	11
51	A new algorithm for computing reducts based on the binary discernibility matrix. Intelligent Data Analysis, 2016, 20, 317-337.	0.9	11
52	Gate Detection for Micro Aerial Vehicles using a Single Shot Detector. IEEE Latin America Transactions, 2019, 17, 2045-2052.	1.6	11
53	MinReduct: A new algorithm for computing the shortest reducts. Pattern Recognition Letters, 2020, 138, 177-184.	4.2	11
54	Decision tree induction using a fast splitting attribute selection for large datasets. Expert Systems With Applications, 2011, 38, 14290-14290.	7.6	10

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55	Hardwareâ€“software platform for computing irreducible testors. Expert Systems With Applications, 2012, 39, 2203-2210.	7.6	10
56	An empirical comparison among quality measures for pattern based classifiers. Intelligent Data Analysis, 2014, 18, S5-S17.	0.9	10
57	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
58	Deterministic oversampling methods based on SMOTE. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4945-4955.	1.4	10
59	An improved algorithm for partial clustering. Expert Systems With Applications, 2019, 121, 282-291.	7.6	10
60	A systematic evaluation of filter Unsupervised Feature Selection methods. Expert Systems With Applications, 2020, 162, 113745.	7.6	10
61	Using Maximum Similarity Graphs to Edit Nearest Neighbor Classifiers. Lecture Notes in Computer Science, 2009, , 489-496.	1.3	10
62	Improving graph-based image classification by using emerging patterns as attributes. Engineering Applications of Artificial Intelligence, 2016, 50, 215-225.	8.1	9
63	A new algorithm for reduct computation based on gap elimination and attribute contribution. Information Sciences, 2018, 435, 111-123.	6.9	9
64	A New Emerging Pattern Mining Algorithm and Its Application in Supervised Classification. Lecture Notes in Computer Science, 2010, , 150-157.	1.3	9
65	An Oversampling Method for Class Imbalance Problems on Large Datasets. Applied Sciences (Switzerland), 2022, 12, 3424.	2.5	9
66	Fuzzy clustering of semantic spaces. Pattern Recognition, 2001, 34, 783-793.	8.1	8
67	A tool to discover the main themes in a Spanish or English document. Expert Systems With Applications, 2000, 19, 319-327.	7.6	7
68	Prototype selection based on sequential search. Intelligent Data Analysis, 2009, 13, 599-631.	0.9	7
69	A new algorithm for approximate pattern mining in multi-graph collections. Knowledge-Based Systems, 2016, 109, 198-207.	7.1	7
70	On the Relation Between the Concepts of Irreducible Testor and Minimal Transversal. IEEE Access, 2019, 7, 82809-82816.	4.2	7
71	A New Incremental Algorithm for Overlapped Clustering. Lecture Notes in Computer Science, 2009, , 497-504.	1.3	7
72	Nested Dichotomies Based on Clustering. Lecture Notes in Computer Science, 2012, , 162-169.	1.3	7

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73	Mining Frequent Similar Patterns on Mixed Data. Lecture Notes in Computer Science, 2008, , 136-144.	1.3	6
74	Hybrid Feature Selection Method for Supervised Classification Based on Laplacian Score Ranking. Lecture Notes in Computer Science, 2010, , 260-269.	1.3	6
75	Algorithms for mining frequent itemsets in static and dynamic datasets. Intelligent Data Analysis, 2010, 14, 419-435.	0.9	6
76	A dynamic clustering algorithm for building overlapping clusters. Intelligent Data Analysis, 2012, 16, 211-232.	0.9	6
77	Improved fast partitional clustering algorithm for text clustering. Journal of Intelligent and Fuzzy Systems, 2020, 39, 2137-2145.	1.4	6
78	Restricted Sequential Floating Search Applied to Object Selection. Lecture Notes in Computer Science, 2007, , 694-702.	1.3	6
79	FPGA-Based Architecture for Computing Testors. Lecture Notes in Computer Science, 2007, , 188-197.	1.3	6
80	RGC: A new conceptual clustering algorithm for mixed incomplete data sets. Mathematical and Computer Modelling, 2002, 36, 1375-1385.	2.0	5
81	Sequential Search for Decremental Edition. Lecture Notes in Computer Science, 2005, , 280-285.	1.3	5
82	Gait Recognition Based on Silhouette, Contour and Classifier Ensembles. Lecture Notes in Computer Science, 2008, , 527-534.	1.3	5
83	A new algorithm for mining frequent connected subgraphs based on adjacency matrices. Intelligent Data Analysis, 2010, 14, 385-403.	0.9	5
84	Hybrid feature selection method for biomedical datasets. , 2012, , .		5
85	Mining patterns for clustering using unsupervised decision trees. Intelligent Data Analysis, 2015, 19, 1297-1310.	0.9	5
86	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
87	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
88	Cascading an Emerging Pattern Based Classifier. Lecture Notes in Computer Science, 2010, , 240-249.	1.3	5
89	Editing and Training for ALVOT, an Evolutionary Approach. Lecture Notes in Computer Science, 2003, , 452-456.	1.3	4
90	Edition Schemes Based on BSE. Lecture Notes in Computer Science, 2005, , 360-367.	1.3	4

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91	A New Graph-Based Algorithm for Clustering Documents. , 2008, , .		4
92	Classification based on specific rules and inexact coverage. Expert Systems With Applications, 2012, 39, 11203-11211.	7.6	4
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.	1.4	4
94	LC: A Conceptual Clustering Algorithm. Lecture Notes in Computer Science, 2001, , 117-127.	1.3	4
95	Mining Generalized Closed Patterns from Multi-graph Collections. Lecture Notes in Computer Science, 2018, , 10-18.	1.3	4
96	New Dissimilarity Measures for Ultraviolet Spectra Identification. Lecture Notes in Computer Science, 2010, , 220-229.	1.3	4
97	New Penalty Scheme for Optimal Subsequence Bijection. Lecture Notes in Computer Science, 2013, , 206-213.	1.3	4
98	Determination of Similarity Threshold in Clustering Problems for Large Data Sets. Lecture Notes in Computer Science, 2003, , 611-618.	1.3	3
99	A Novel Incremental Algorithm for Frequent Itemsets Mining in Dynamic Datasets. Lecture Notes in Computer Science, 2008, , 145-152.	1.3	3
100	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
101	Linear model optimizer vs Neural Networks: A comparison for improving the quality and saving of LED-Lighting control systems. , 2016, , .		3
102	Improved Hieroglyph Representation for Image Retrieval. Journal on Computing and Cultural Heritage, 2019, 12, 1-15.	2.1	3
103	Mining clique frequent approximate subgraphs from multi-graph collections. Applied Intelligence, 2020, 50, 878-892.	5.3	3
104	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
105	Taking Advantage of Class-Specific Feature Selection. Lecture Notes in Computer Science, 2009, , 1-8.	1.3	3
106	Easy Categorization of Attributes in Decision Tables Based on Basic Binary Discernibility Matrix. Lecture Notes in Computer Science, 2013, , 302-310.	1.3	3
107	Computing Constructs by Using Typical Testor Algorithms. Lecture Notes in Computer Science, 2015, , 44-53.	1.3	3
108	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

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109	On the selection of base prototypes for LAESA and TLAESA classifiers. , 2008, , .		2
110	Classifying Using Specific Rules with High Confidence. , 2010, , .		2
111	Combining Techniques to Find the Number of Bins for Discretization. , 2013, , .		2
112	Detecting Pneumatic Failures on Temporary Immersion Bioreactors. Lecture Notes in Computer Science, 2016, , 293-302.	1.3	2
113	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
114	Bag of k-nearest visual words for hieroglyph retrieval. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4981-4990.	1.4	2
115	Frequent similar pattern mining using non Boolean similarity functions. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4931-4944.	1.4	2
116	K-means based method for overlapping document clustering. Journal of Intelligent and Fuzzy Systems, 2020, 39, 2127-2135.	1.4	2
117	Are Reducts and Typical Testors the Same?. Lecture Notes in Computer Science, 2014, , 294-301.	1.3	2
118	Graph Clustering via Inexact Patterns. Lecture Notes in Computer Science, 2014, , 391-398.	1.3	2
119	Multivariate Decision Trees Using Different Splitting Attribute Subsets for Large Datasets. Lecture Notes in Computer Science, 2010, , 370-373.	1.3	2
120	Feature Space Reduction for Graph-Based Image Classification. Lecture Notes in Computer Science, 2013, , 246-253.	1.3	2
121	Duplicate Candidate Elimination and Fast Support Calculation for Frequent Subgraph Mining. Lecture Notes in Computer Science, 2009, , 292-299.	1.3	2
122	Fast-BR vs. Fast-CT_EXT: An Empirical Performance Study. Lecture Notes in Computer Science, 2017, , 127-136.	1.3	2
123	Algorithm for computing all the shortest reducts based on a new pruning strategy. Information Sciences, 2022, 585, 113-126.	6.9	2
124	Genetic Algorithm for Multidimensional Scaling over Mixed and Incomplete Data. Lecture Notes in Computer Science, 2012, , 226-235.	1.3	1
125	Information Retrieval Based on a Query Document Using Maximal Frequent Sequences. , 2013, , .		1
126	A Different Approach for Pruning Micro-clusters in Data Stream Clustering. Lecture Notes in Computer Science, 2015, , 33-43.	1.3	1



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127	Adjustment of Wavelet Filters for Image Compression Using Artificial Intelligence. Polibits, 2016, 53, 23-30.	0.0	1
128	A Glance to the Goldmanâ€™s Testors from the Point of View of Rough Set Theory. Lecture Notes in Computer Science, 2016, , 189-197.	1.3	1
129	Ranking Based Unsupervised Feature Selection Methods: An Empirical Comparative Study in High Dimensional Datasets. Lecture Notes in Computer Science, 2018, , 205-218.	1.3	1
130	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
131	Unsupervised Outlier detection algorithm based on k-NN and fuzzy logic. , 2019, , .		1
132	Automatic filter coefficient calculation in lifting scheme wavelet transform for lossless image compression. Visual Computer, 2021, 37, 957-972.	3.5	1
133	Conceptual K-Means Algorithm Based on Complex Features. Lecture Notes in Computer Science, 2006, , 491-501.	1.3	1
134	A Novel Contrast Pattern Selection Method forâ€ˆClass Imbalance Problems. Lecture Notes in Computer Science, 2017, , 42-52.	1.3	1
135	Mixed Data Object Selection Based on Clustering and Border Objects. , 2007, , 674-683.		1
136	Using Non Boolean Similarity Functions for Frequent Similar Pattern Mining. Lecture Notes in Computer Science, 2010, , 374-378.	1.3	1
137	Discovering Differences in Patients with Uveitis through Typical Testors by Class. Lecture Notes in Computer Science, 2000, , 524-529.	1.3	1
138	Two Floating Search Strategies to Compute the Support Sets System for ALVOT. Lecture Notes in Computer Science, 2004, , 677-684.	1.3	1
139	Classifier Selection Based on Data Complexity Measures. Lecture Notes in Computer Science, 2005, , 586-592.	1.3	1
140	Including Foreground and Background Information in Maya Hieroglyph Representation. Lecture Notes in Computer Science, 2018, , 238-247.	1.3	1
141	On the Use of Constructs for Rule-Based Classification: A Case Study. Lecture Notes in Computer Science, 2019, , 327-335.	1.3	1
142	Fast k Most Similar Neighbor Classifier for Mixed Data Based on Approximating and Eliminating. , 2008, , 697-704.		1
143	Fast k Most Similar Neighbor Classifier for Mixed Data Based on a Tree Structure. , 2007, , 407-416.		1
144	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

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145	Data Preprocessing by Sequential Pattern Mining for LZW. , 0, , .		0
146	Studying Netconf in Hybrid Rule Ordering Strategies for Associative Classification. Lecture Notes in Computer Science, 2014, , 51-60.	1.3	0
147	Correlation of Resampling Methods for Contrast Pattern Based Classifiers. Lecture Notes in Computer Science, 2015, , 93-102.	1.3	0
148	The Mexican Conference on Pattern Recognition After Ten Editions: A Scientometric Study. Lecture Notes in Computer Science, 2019, , 315-326.	1.3	0
149	Unsupervised Feature Selection Methodology for Analysis of Bacterial Taxonomy Profiles. Lecture Notes in Computer Science, 2021, , 47-56.	1.3	0
150	Experimental Comparison of Oversampling Methods for Mixed Datasets. Lecture Notes in Computer Science, 2021, , 78-88.	1.3	0
151	A Comparison between Two Fuzzy Clustering Algorithms for Mixed Features. Lecture Notes in Computer Science, 2003, , 472-479.	1.3	0
152	Reward-Punishment Editing for Mixed Data. Lecture Notes in Computer Science, 2005, , 481-488.	1.3	0
153	Fast Most Similar Neighbor Classifier for Mixed Data. Lecture Notes in Computer Science, 2007, , 146-158.	1.3	0
154	Fast k Most Similar Neighbor Classifier for Mixed Data Based on a Tree Structure and Approximating-Eliminating. Lecture Notes in Computer Science, 2008, , 364-371.	1.3	0
155	Designing RBFNNs Using Prototype Selection. Lecture Notes in Computer Science, 2010, , 189-198.	1.3	0
156	A Modification of the Lernmatrix for Real Valued Data Processing. Lecture Notes in Computer Science, 2012, , 487-494.	1.3	0
157	CAR-NF+â€‰: An Improved Version of CAR-NF Classifier. Lecture Notes in Computer Science, 2012, , 455-462.	1.3	0
158	A New Method for Skeleton Pruning. Lecture Notes in Computer Science, 2014, , 301-310.	1.3	0
159	On Two Definitions of Reduct. Lecture Notes in Computer Science, 2014, , 31-40.	1.3	0
160	Prototype Selection for Graph Embedding Using Instance Selection. Lecture Notes in Computer Science, 2015, , 84-92.	1.3	0
161	AJUSTE DE FILTROS WAVELET UTILIZANDO K-NN PARA COMPRESI3N DE IM3GENES SIN PERDIDA. Dyna New Technologies, 2016, 3, [14 p.]-[14 p.].	0.1	0
162	An Algorithm for Computing Goldman Fuzzy3Reducts. Lecture Notes in Computer Science, 2017, , 3-12.	1.3	0

#	ARTICLE	IF	CITATIONS
163	COMPRESIÓN DE IMÁGENES SIN PÉRDIDA USANDO CLASIFICADOR 1-NN PARA ADAPTAR LOS COEFICIENTES DE FILTROS LIFTING. Dyna (Spain), 2017, 92, 143-143.	0.2	0
164	Multi-graph Frequent Approximate Subgraph Mining for Image Clustering. Lecture Notes in Computer Science, 2018, , 133-140.	1.3	0