Francisco de Assis Tenorio de Carvalho

List of Publications by Year
in descending order

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136	2,512	257101	214527
papers	citations	24 h-index	47 g-index

142	142	142	1116
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Clustering interval-valued data with adaptive Euclidean and City-Block distances. Expert Systems With Applications, 2022, 198, 116774.	4.4	5
2	Two weighted c-medoids batch SOM algorithms for dissimilarity data. Information Sciences, 2022, 607, 603-619.	4.0	3
3	Unsupervised feature selection method based on iterative similarity graph factorization and clustering by modularity. Expert Systems With Applications, 2022, 208, 118092.	4.4	3
4	Co-clustering algorithms for distributional data with automated variable weighting. Information Sciences, 2021, 549, 87-115.	4.0	2
5	A clusterwise nonlinear regression algorithm for interval-valued data. Information Sciences, 2021, 555, 357-385.	4.0	14
6	Soft subspace clustering of interval-valued data with regularizations. Knowledge-Based Systems, 2021, 227, 107191.	4.0	6
7	Fuzzy clustering algorithms with distance metric learning and entropy regularization. Applied Soft Computing Journal, 2021, 113, 107922.	4.1	5
8	Interval joint robust regression method. Neurocomputing, 2021, 465, 265-288.	3.5	3
9	Weighted Clusterwise Linear Regression based on adaptive quadratic form distance. Expert Systems With Applications, 2021, 185, 115609.	4.4	3
10	PSO for Fuzzy Clustering of Multi-view Relational Data. International Journal of Pattern Recognition and Artificial Intelligence, 2020, 34, 2050022.	0.7	3
11	A new batch SOM algorithm for relational data with weighted medoids. , 2020, , .		0
12	A new fuzzy clustering algorithm for interval-valued data based on City-Block distance. , 2019, , .		4
13	Clustering interval-valued data with automatic variables weighting. , 2019, , .		1
14	A Multiview Clustering Approach for Mining Authorial Affinities in Literary Texts. , 2019, , .		1
15	Clustering of multi-view relational data based on particle swarm optimization. Expert Systems With Applications, 2019, 123, 34-53.	4.4	15
16	A Fuzzy Clustering Algorithm with Multi-medoids for Multi-view Relational Data. Lecture Notes in Computer Science, 2019, , 469-477.	1.0	0
17	Adaptive- $$L_2$$ L 2 Batch Neural Gas. Lecture Notes in Computer Science, 2019, , 84-95.	1.0	0
18	Gaussian kernel c-means hard clustering algorithms with automated computation of the width hyper-parameters. Pattern Recognition, 2018, 79, 370-386.	5.1	10

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19	An exponential-type kernel robust regression model for interval-valued variables. Information Sciences, 2018, 454-455, 419-442.	4.0	22
20	On Combining Fuzzy C-Regression Models and Fuzzy C-Means with Automated Weighting of the Explanatory Variables. , 2018, , .		0
21	Fuzzy clustering Algorithm based on Adaptive City-block distance and Entropy Regularization. , 2018, , .		1
22	Gaussian Kernel-Based Fuzzy Clustering with Automatic Bandwidth Computation. Lecture Notes in Computer Science, 2018, , 685-694.	1.0	1
23	Fuzzy Clustering Algorithm Based on Adaptive Euclidean Distance and Entropy Regularization for Interval-Valued Data. Lecture Notes in Computer Science, 2018, , 695-705.	1.0	3
24	Nonlinear regression applied to interval-valued data. Pattern Analysis and Applications, 2017, 20, 809-824.	3.1	25
25	Fuzzy clustering of distributional data with automatic weighting of variable components. Information Sciences, 2017, 406-407, 248-268.	4.0	13
26	A robust regression method based on exponential-type kernel functions. Neurocomputing, 2017, 234, 58-74.	3.5	12
27	On Combining Clusterwise Linear Regression and K-Means with Automatic Weighting of the Explanatory Variables. Lecture Notes in Computer Science, 2017, , 402-410.	1.0	2
28	Multi-view hard c-means with automated weighting of views and variables. , 2017, , .		2
29	Fuzzy clustering of multi-view relational data with pairwise constraints. , 2017, , .		3
30	Fuzzy clustering algorithm with automatic variable selection and entropy regularization. , 2017, , .		2
31	Fuzzy clustering of interval-valued data with City-Block and Hausdorff distances. Neurocomputing, 2017, 266, 659-673.	3.5	20
32	Particle Swarm Optimization applied to relational data clustering. , 2016, , .		1
33	Batch SOM algorithms for interval-valued data with automatic weighting of the variables. Neurocomputing, 2016, 182, 66-81.	3.5	15
34	Guest Editorial Special Issue on Granular/Symbolic Data Processing. IEEE Transactions on Cybernetics, 2016, 46, 342-343.	6.2	5
35	Kernel-based hard clustering methods with kernelization of the metric and automatic weighting of the variables. Pattern Recognition, 2016, 51, 310-321.	5.1	21
36	A Gaussian Kernel-based Clustering Algorithm with Automatic Hyper-parameters Computation. Lecture Notes in Computer Science, 2016, , 393-400.	1.0	1

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37	A multi-view relational fuzzy c-medoid vectors clustering algorithm. Neurocomputing, 2015, 163, 115-123.	3.5	26
38	Fuzzy clustering of distribution-valued data using an adaptive L2 Wasserstein distance. , 2015, , .		2
39	A Set-Medoids Vector Batch SOM Algorithm Based on Multiple Dissimilarity Matrices. , 2015, , .		1
40	Fuzzy co-clustering with automated variable weighting. , 2015, , .		1
41	Clustering of Solar Irradiance. Studies in Classification, Data Analysis, and Knowledge Organization, 2015, , 43-53.	0.1	4
42	A kernel k-means clustering algorithm based on an adaptive Mahalanobis kernel. , 2014, , .		0
43	Kernel-based hard clustering methods in the feature space with automatic variable weighting. Pattern Recognition, 2014, 47, 3082-3095.	5.1	15
44	Dynamic clustering of histogram data based on adaptive squared Wasserstein distances. Expert Systems With Applications, 2014, 41, 3351-3366.	4.4	38
45	Kernel fuzzy c-means with automatic variable weighting. Fuzzy Sets and Systems, 2014, 237, 1-46.	1.6	37
46	Multi-view Clustering on Relational Data. Studies in Computational Intelligence, 2014, , 37-51.	0.7	5
47	Batch self-organizing maps for mixed feature-type symbolic data. , 2013, , .		0
48	Nonlinear multicriteria clustering based on multiple dissimilarity matrices. Pattern Recognition, 2013, 46, 3383-3394.	5.1	3
49	Relational partitioning fuzzy clustering algorithms based on multiple dissimilarity matrices. Fuzzy Sets and Systems, 2013, 215, 1-28.	1.6	30
50	Partitioning Fuzzy C-Means Clustering Algorithms for Interval-Valued Data Based on City-Block Distances. , 2013, , .		2
51	A Fuzzy C-Medoids Clustering Algorithm Based on Multiple Dissimilarity Matrices. , 2013, , .		2
52	Semi-supervised fuzzy c-medoids clustering algorithm with multiple prototype representation. , 2013, , .		6
53	A fuzzy clustering algorithm based on adaptive city-block distances. , 2012, , .		0
54	An adaptive isodata fuzzy clustering algorithm with partial supervision. , 2012, , .		1

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55	An adaptive semi-supervised fuzzy clustering algorithm based on objective function optimization. , 2012, , .		3
56	Partitioning hard kernel clustering methods based on local adaptive distances. , 2012, , .		0
57	Kernel fuzzy clustering methods based on local adaptive distances. , 2012, , .		2
58	Inferring epigenetic and transcriptional regulation during blood cell development with a mixture of sparse linear models. Bioinformatics, 2012, 28, 2297-2303.	1.8	13
59	Exponential smoothing methods for forecasting bar diagram-valued time series. , 2012, , .		1
60	A pattern classifier for interval-valued data based on multinomial logistic regression model. , 2012, , .		7
61	Multicriteria clustering with weighted Tchebycheff distances for relational data. , 2012, , .		0
62	Partitioning fuzzy clustering algorithms for interval-valued data based on Hausdorff distances. , 2012, , .		1
63	Partitioning fuzzy clustering algorithms for mixed feature-type symbolic data. , 2012, , .		0
64	Variable-Wise Kernel-Based Clustering Algorithms for Interval-Valued Data. , 2012, , .		2
65	Partitioning hard clustering algorithms based on multiple dissimilarity matrices. Pattern Recognition, 2012, 45, 447-464.	5.1	63
66	Bivariate symbolic regression models for interval-valued variables. Journal of Statistical Computation and Simulation, 2011, 81, 1727-1744.	0.7	51
67	Adaptive Batch SOM for Multiple Dissimilarity Data Tables. , 2011, , .		5
68	Holtâ€™s exponential smoothing and neural network models for forecasting interval-valued time series. International Journal of Forecasting, 2011, 27, 740-759.	3.9	123
69	Symbolic data analysis tools for recommendation systems. Knowledge and Information Systems, 2011, 26, 385-418.	2.1	15
70	Predicting gene expression in T cell differentiation from histone modifications and transcription factor binding affinities by linear mixture models. BMC Bioinformatics, 2011, 12, S29.	1.2	30
71	A batch self-organizing maps algorithm based on adaptive distances. , 2011, , .		2
72	Unsupervised pattern recognition models for mixed feature-type symbolic data. Pattern Recognition Letters, 2010, 31, 430-443.	2.6	37

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73	Fuzzy K-means clustering algorithms for interval-valued data based on adaptive quadratic distances. Fuzzy Sets and Systems, 2010, 161, 2978-2999.	1.6	76
74	Constrained linear regression models for symbolic interval-valued variables. Computational Statistics and Data Analysis, 2010, 54, 333-347.	0.7	164
75	A new approach for semi-supervised clustering based on Fuzzy C-Means. , 2010, , .		7
76	A relational fuzzy c-means clustering algorithm based on multiple dissimilarity matrices. , 2010, , .		0
77	A Clusterwise Center and Range Regression Model for Interval-Valued Data. , 2010, , 461-468.		4
78	Semi-supervised Approach for Finding Cancer Sub-classes on Gene Expression Data. Lecture Notes in Computer Science, 2010, , 25-34.	1.0	1
79	Bivariate Generalized Linear Model for Interval-Valued Variables. , 2009, , .		4
80	Clustering of symbolic data using the assignment-prototype algorithm. , 2009, , .		1
81	Partitional clustering algorithms for symbolic interval data based on single adaptive distances. Pattern Recognition, 2009, 42, 1223-1236.	5.1	64
82	Clustering constrained symbolic data. Pattern Recognition Letters, 2009, 30, 1037-1045.	2.6	15
83	Clustering Dynamic Web Usage Data. Studies in Computational Intelligence, 2009, , 71-82.	0.7	1
84	Dynamic Clustering of Interval-Valued Data Based on Adaptive Quadratic Distances. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 1295-1306.	3.4	39
85	An Analysis of Meta-learning Techniques for Ranking Clustering Algorithms Applied to Artificial Data. Lecture Notes in Computer Science, 2009, , 131-140.	1.0	12
86	Comparing Clustering on Symbolic Data. Studies in Computational Intelligence, 2009, , 81-94.	0.7	0
87	Centre and Range method for fitting a linear regression model to symbolic interval data. Computational Statistics and Data Analysis, 2008, 52, 1500-1515.	0.7	200
88	Forecasting models for interval-valued time series. Neurocomputing, 2008, 71, 3344-3352.	3.5	123
89	Neural Networks and Exponential Smoothing Models for Symbolic Interval Time Series Processing Applications in Stock Market. , 2008, , .		1
90	A Weighted Partitioning Dynamic Clustering Algorithm for Quantitative Feature Data Based on Adaptive Euclidean Distances. , 2008, , .		2

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91	Clustering of symbolic data through a dissimilarity volume based measure. , 2008, , .		0
92	Nonlinear regression model to symbolic interval-valued variables. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	1
93	An evolutionary approach for the clustering data problem. , 2008, , .		0
94	Evolving both size and accuracy of RBF networks using Memetic Algorithm. , 2008, , .		0
95	Fitting a Least Absolute Deviation Regression Model on Interval-Valued Data. Lecture Notes in Computer Science, 2008, , 207-216.	1.0	4
96	A Partitioning Fuzzy Clustering Algorithm for Symbolic Interval Data based on Adaptive Mahalanobis Distances. , 2007, , .		0
97	Clustering symbolic interval data based on a single adaptive hausdorff distance. , 2007, , .		7
98	Clustering of symbolic interval data based on a single adaptive L1 distance. , 2007, , .		4
99	A Partitioning Fuzzy Clustering Algorithm for Symbolic Interval Data based on Adaptive Mahalanobis Distances. , 2007, , .		0
100	Inequality Constraints in Regression Models to Symbolic Interval Variables. , 2007, , .		0
101	Constrained linear regression models for interval-valued data with dependence. , 2007, , .		1
102	Fuzzy c-means clustering methods for symbolic interval data. Pattern Recognition Letters, 2007, 28, 423-437.	2.6	159
103	A Partitioning Method for Mixed Feature-Type Symbolic Data Using a Squared Euclidean Distance. Lecture Notes in Computer Science, 2007, , 260-273.	1.0	1
104	A Clustering Algorithm for Symbolic Interval Data Based on a Single Adaptive Hausdorff Distance. Studies in Classification, Data Analysis, and Knowledge Organization, 2007, , 35-44.	0.1	0
105	A dynamical clustering method for symbolic interval data based on a single adaptive Euclidean distance. , 2006, , .		2
106	Linear Regression Methods to Predict Interval-Valued Data. , 2006, , .		6
107	Symbolic interval time series forecasting using a hybrid model. , 2006, , .		0
108	Adaptive Hausdorff distances and dynamic clustering of symbolic interval data. Pattern Recognition Letters, 2006, 27, 167-179.	2.6	172

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109	New clustering methods for interval data. Computational Statistics, 2006, 21, 211-229.	0.8	87
110	Dynamic clustering for interval data based on L 2 distance. Computational Statistics, 2006, 21, 231-250.	0.8	115
111	Partitional fuzzy clustering methods based on adaptive quadratic distances. Fuzzy Sets and Systems, 2006, 157, 2833-2857.	1.6	40
112	Fuzzy clustering algorithms for symbolic interval data based on adaptive and non-adaptive Euclidean distances. , 2006, , .		3
113	A Hybrid Model for Symbolic Interval Time Series Forecasting. Lecture Notes in Computer Science, 2006, , 934-941.	1.0	3
114	A Fuzzy Clustering Algorithm for Symbolic Interval Data Based on a Single Adaptive Euclidean Distance. Lecture Notes in Computer Science, 2006, , 1012-1021.	1.0	1
115	A Dynamic Clustering Method for Mixed Feature-Type Symbolic Data. Studies in Classification, Data Analysis, and Knowledge Organization, 2006, , 203-210.	0.1	1
116	Symbolic Clustering of Large Datasets. Studies in Classification, Data Analysis, and Knowledge Organization, 2006, , 193-201.	0.1	1
117	Applying Constrained Linear Regression Models to Predict Interval-Valued Data. Lecture Notes in Computer Science, 2005, , 92-106.	1.0	8
118	A New Method to Fit a Linear Regression Model for Interval-Valued Data. Lecture Notes in Computer Science, 2004, , 295-306.	1.0	27
119	A symbolic approach for content-based information filtering. Information Processing Letters, 2004, 92, 45-52.	0.4	25
120	A Modal Symbolic Classifier for selecting time series models. Pattern Recognition Letters, 2004, 25, 911-921.	2.6	30
121	Clustering of interval data based on cityâ€“block distances. Pattern Recognition Letters, 2004, 25, 353-365.	2.6	190
122	Clustering of Interval-Valued Data Using Adaptive Squared Euclidean Distances. Lecture Notes in Computer Science, 2004, , 775-780.	1.0	19
123	A Modal Symbolic Pattern Classifier. Studies in Classification, Data Analysis, and Knowledge Organization, 2004, , 15-25.	0.1	0
124	A Symbolic Hybrid Approach to Face the New User Problem in Recommender Systems. Lecture Notes in Computer Science, 2004, , 1011-1016.	1.0	5
125	Unsupervised pattern recognition methods for interval data using non-quadratic distances. Electronics Letters, 2003, 39, 433.	0.5	0
126	Information Filtering Based on Modal Symbolic Objects. Studies in Classification, Data Analysis, and Knowledge Organization, 2003, , 395-404.	0.1	1

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127	Speeding up Recommender Systems with Meta-prototypes. Lecture Notes in Computer Science, 2002, , 227-236.	1.0	6
128	Symbolic Approach to Classify Large Data Sets. Studies in Classification, Data Analysis, and Knowledge Organization, 2000, , 375-380.	0.1	5
129	A Dynamical Clustering Algorithm for Multi-nominal Data. Studies in Classification, Data Analysis, and Knowledge Organization, 2000, , 387-393.	0.1	12
130	Statistical proximity functions of Boolean symbolic objects based on histograms. Studies in Classification, Data Analysis, and Knowledge Organization, 1998, , 391-396.	0.1	14
131	Histograms in symbolic data analysis. Annals of Operations Research, 1995, 55, 299-322.	2.6	22
132	A symbolic approach to gene expression time series analysis. , 0, , .		6
133	Clustering Methods in Symbolic Data Analysis. , 0, , 181-203.		3
134	The Normal Symbolic Form. , 0, , 93-107.		0
135	Hierarchical and Pyramidal Clustering. , 0, , 157-179.		1
136	Batch Self-Organizing Maps for Distributional Data with an Automatic Weighting of Variables and Components. Journal of Classification, 0, , 1.	1.2	2