Ricardo J G B Campello

List of Publications by Year
in descending order

72 papers	4,575 citations	257101 24 h-index	155451 55 g-index
73 all docs	73 docs citations	73 times ranked	4612 citing authors

#	Article	IF	Citations
1	Density-Based Clustering Based on Hierarchical Density Estimates. Lecture Notes in Computer Science, 2013, , 160-172.	1.0	895
2	A Survey of Evolutionary Algorithms for Clustering. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2009, 39, 133-155.	3.3	581
3	On the evaluation of unsupervised outlier detection: measures, datasets, and an empirical study. Data Mining and Knowledge Discovery, 2016, 30, 891-927.	2.4	445
4	Hierarchical Density Estimates for Data Clustering, Visualization, and Outlier Detection. ACM Transactions on Knowledge Discovery From Data, 2015, 10, 1-51.	2.5	424
5	A fuzzy extension of the silhouette width criterion for cluster analysis. Fuzzy Sets and Systems, 2006, 157, 2858-2875.	1.6	237
6	Relative clustering validity criteria: A comparative overview. Statistical Analysis and Data Mining, 2010, 3, 209-235.	1.4	218
7	A fuzzy extension of the Rand index and other related indexes for clustering and classification assessment. Pattern Recognition Letters, 2007, 28, 833-841.	2.6	163
8	On the selection of appropriate distances for gene expression data clustering. BMC Bioinformatics, 2014, 15, S2.	1.2	113
9	Density-Based Clustering Validation. , 2014, , .		111
10	Efficiency issues of evolutionary k-means. Applied Soft Computing Journal, 2011, 11, 1938-1952.	4.1	97
11	A systematic comparative evaluation of biclustering techniques. BMC Bioinformatics, 2017, 18, 55.	1.2	96
12	Optimal expansions of discrete-time Volterra models using Laguerre functions. Automatica, 2004, 40, 815-822.	3.0	88
13	Collaborative Fuzzy Clustering Algorithms: Some Refinements and Design Guidelines. IEEE Transactions on Fuzzy Systems, 2012, 20, 444-462.	6.5	80
14	On the Comparison of Relative Clustering Validity Criteria. , 2009, , .		69
15	A framework for semi-supervised and unsupervised optimal extraction of clusters from hierarchies. Data Mining and Knowledge Discovery, 2013, 27, 344-371.	2.4	55
16	Cluster ensemble selection based on relative validity indexes. Data Mining and Knowledge Discovery, 2013, 27, 259-289.	2.4	55
17	Density‒based clustering. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2020, 10, e1343.	4.6	51
18	On the efficiency of evolutionary fuzzy clustering. Journal of Heuristics, 2009, 15, 43-75.	1.1	49

#	Article	IF	Citations
19	Proximity Measures for Clustering Gene Expression Microarray Data: A Validation Methodology and a Comparative Analysis. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 845-857.	1.9	42
20	Choice of free parameters in expansions of discrete-time Volterra models using Kautz functions. Automatica, 2007, 43, 1084-1091.	3.0	39
21	Hierarchical fuzzy relational models: linguistic interpretation and universal approximation. IEEE Transactions on Fuzzy Systems, 2006, 14, 446-453.	6.5	35
22	Generalized external indexes for comparing data partitions with overlapping categories. Pattern Recognition Letters, 2010, 31, 966-975.	2.6	35
23	Comparison of distributed evolutionary k-means clustering algorithms. Neurocomputing, 2015, 163, 78-93.	3.5	29
24	Similarity Measures for Comparing Biclusterings. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2014, 11, 942-954.	1.9	27
25	Modeling and linguistic knowledge extraction from systems using fuzzy relational models. Fuzzy Sets and Systems, 2001, 121, 113-126.	1.6	26
26	On strategies for building effective ensembles of relative clustering validity criteria. Knowledge and Information Systems, 2016, 47, 329-354.	2.1	25
27	Hierarchical Density-Based Clustering Using MapReduce. IEEE Transactions on Big Data, 2021, 7, 102-114.	4.4	25
28	Exact Search Directions for Optimization of Linear and Nonlinear Models Based on Generalized Orthonormal Functions. IEEE Transactions on Automatic Control, 2009, 54, 2757-2772.	3.6	24
29	An introduction to models based on Laguerre, Kautz and other related orthonormal functions &ndash; part I: linear and uncertain models. International Journal of Modelling, Identification and Control, 2011, 14, 121.	0.2	24
30	Improving k-means through distributed scalable metaheuristics. Neurocomputing, 2017, 246, 45-57.	3.5	24
31	Takagiâ€"Sugeno Fuzzy Models in the Framework of Orthonormal Basis Functions. IEEE Transactions on Cybernetics, 2013, 43, 858-870.	6.2	23
32	Data perturbation for outlier detection ensembles. , 2014, , .		22
33	Clustering of RNA-Seq samples: Comparison study on cancer data. Methods, 2018, 132, 42-49.	1.9	22
34	Hierarchical fuzzy models within the framework of orthonormal basis functions and their application to bioprocess control. Chemical Engineering Science, 2003, 58, 4259-4270.	1.9	21
35	Improving the Efficiency of a Clustering Genetic Algorithm. Lecture Notes in Computer Science, 2004, , 861-870.	1.0	21
36	A note on the optimal expansion of Volterra models using Laguerre functions. Automatica, 2006, 42, 689-693.	3.0	21

#	Article	IF	Citations
37	On the combination of relative clustering validity criteria. , 2013, , .		21
38	Automatic aspect discrimination in data clustering. Pattern Recognition, 2012, 45, 4370-4388.	5.1	18
39	An introduction to models based on Laguerre, Kautz and other related orthonormal functions Â— Part II: non-linear models. International Journal of Modelling, Identification and Control, 2012, 16, 1.	0.2	15
40	On the internal evaluation of unsupervised outlier detection. , 2015, , .		15
41	Combining semantic and term frequency similarities for text clustering. Knowledge and Information Systems, 2019, 61, 1485-1516.	2.1	15
42	An optimal expansion of Volterra models using independent Kautz bases for each kernel dimension. International Journal of Control, 2008, 81, 962-975.	1.2	14
43	Boosting collaborative filtering with an ensemble of co-trained recommenders. Expert Systems With Applications, 2019, 115, 427-441.	4.4	14
44	Internal Evaluation of Unsupervised Outlier Detection. ACM Transactions on Knowledge Discovery From Data, 2020, 14, 1-42.	2.5	14
45	The area under the ROC curve as a measure of clustering quality. Data Mining and Knowledge Discovery, 2022, 36, 1219-1245.	2.4	14
46	Efficient Computation of Multiple Density-Based Clustering Hierarchies. , 2017, , .		12
47	A unified view of density-based methods for semi-supervised clustering and classification. Data Mining and Knowledge Discovery, 2019, 33, 1894-1952.	2.4	12
48	Communities validity: methodical evaluation of community mining algorithms. Social Network Analysis and Mining, 2013, 3, 1039-1062.	1.9	11
49	Towards true linguistic modelling through optimal numerical solutions. International Journal of Systems Science, 2003, 34, 139-157.	3.7	10
50	Evolutionary clustering of relational data. International Journal of Hybrid Intelligent Systems, 2010, 7, 261-281.	0.9	7
51	Evaluating Correlation Coefficients for Clustering Gene Expression Profiles of Cancer. Lecture Notes in Computer Science, 2012, , 120-131.	1.0	7
52	Distributed K-Means Clustering with Low Transmission Cost. , 2013, , .		7
53	CoRec. , 2018, , .		7
54	APPLICATION OF HIERARCHICAL NEURAL FUZZY MODELS TO MODELING AND CONTROL OF A BIOPROCESS. Applied Artificial Intelligence, 2006, 20, 797-816.	2.0	6

#	Article	IF	Citations
55	A unified framework of density-based clustering for semi-supervised classification. , 2018, , .		6
56	Efficient Computation and Visualization of Multiple Density-Based Clustering Hierarchies. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 3075-3089.	4.0	6
57	A Comparative Study on the Use of Correlation Coefficients for Redundant Feature Elimination. , 2010, , .		5
58	A Fuzzy Variant of an Evolutionary Algorithm for Clustering. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	4
59	Identificação e controle de processos via desenvolvimentos em séries ortonormais. Parte B: controle preditivo. Controle and Automacao, 2007, 18, 322-336.	0.2	4
60	A Robust Methodology for Comparing Performances of Clustering Validity Criteria. Lecture Notes in Computer Science, 2008, , 237-247.	1.0	4
61	A Simpler and More Accurate AUTO-HDS Framework for Clustering and Visualization of Biological Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1850-1852.	1.9	3
62	Asymmetric Volterra Models Based on Ladder-Structured Generalized Orthonormal Basis Functions. IEEE Transactions on Automatic Control, 2015, 60, 2879-2891.	3.6	3
63	Combining Information from Distributed Evolutionary k-Means. , 2012, , .		2
64	MustaCHE. Proceedings of the VLDB Endowment, 2018, 11, 2058-2061.	2.1	2
65	Identificação e controle de processos via desenvolvimentos em séries ortonormais. Parte A: identificação. Controle and Automacao, 2007, 18, 301-321.	0.2	1
66	Robust expansion of uncertain Volterra kernels into orthonormal series. , 2010, , .		1
67	Automatic aspect discrimination in relational data clustering. , 2011, , .		1
68	Optimization of Volterra models with asymmetrical kernels based on generalized orthonormal functions. , 2011, , .		1
69	A Modularity-Based Measure for Cluster Selection from Clustering Hierarchies. Communications in Computer and Information Science, 2019, , 253-265.	0.4	1
70	Model-Based Clustering with HDBSCAN*. Lecture Notes in Computer Science, 2021, , 364-379.	1.0	0
71	Non-parametric Semi-supervised Learning by Bayesian Label Distribution Propagation. Lecture Notes in Computer Science, 2021, , 118-132.	1.0	0
72	Fuzzy Clustering-Based Filter. Communications in Computer and Information Science, 2010, , 406-415.	0.4	0