

Rodrigo C Barros

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

2,202
citations

430754

18
h-index

395590

33
g-index

93
all docs

93
docs citations

93
times ranked

2292
citing authors

#	ARTICLE	IF	CITATIONS
1	Data stream clustering. <i>ACM Computing Surveys</i> , 2013, 46, 1-31.	16.1	375
2	A Survey of Evolutionary Algorithms for Decision-Tree Induction. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 291-312.	3.3	242
3	Unsupervised domain adaptation for medical imaging segmentation with self-ensembling. <i>NeuroImage</i> , 2019, 194, 1-11.	2.1	131
4	Hierarchical multi-label classification using local neural networks. <i>Journal of Computer and System Sciences</i> , 2014, 80, 39-56.	0.9	87
5	Adult content detection in videos with convolutional and recurrent neural networks. <i>Neurocomputing</i> , 2018, 272, 432-438.	3.5	81
6	Reduction strategies for hierarchical multi-label classification in protein function prediction. <i>BMC Bioinformatics</i> , 2016, 17, 373.	1.2	75
7	Machine learning and big data analytics in bipolar disorder: A position paper from the International Society for Bipolar Disorders Big Data Task Force. <i>Bipolar Disorders</i> , 2019, 21, 582-594.	1.1	74
8	A character-based convolutional neural network for language-agnostic Twitter sentiment analysis. , 2017, , .		62
9	Movie genre classification: A multi-label approach based on convolutions through time. <i>Applied Soft Computing Journal</i> , 2017, 61, 973-982.	4.1	60
10	Evolutionary Design of Decision-Tree Algorithms Tailored to Microarray Gene Expression Data Sets. <i>IEEE Transactions on Evolutionary Computation</i> , 2014, 18, 873-892.	7.5	55
11	Movie genre classification with Convolutional Neural Networks. , 2016, , .		52
12	Automatic Design of Decision-Tree Induction Algorithms. <i>SpringerBriefs in Computer Science</i> , 2015, , .	0.2	50
13	Can We Trust Deep Learning Based Diagnosis? The Impact of Domain Shift in Chest Radiograph Classification. <i>Lecture Notes in Computer Science</i> , 2020, , 74-83.	1.0	50
14	Clustering Molecular Dynamics Trajectories for Optimizing Docking Experiments. <i>Computational Intelligence and Neuroscience</i> , 2015, 2015, 1-9.	1.1	45
15	Evolutionary model trees for handling continuous classes in machine learning. <i>Information Sciences</i> , 2011, 181, 954-971.	4.0	44
16	Hierarchical multi-label classification with chained neural networks. , 2017, , .		42
17	Adaptive Cross-Modal Embeddings for Image-Text Alignment. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020, 34, 12313-12320.	3.6	39
18	Automatic Design of Decision-Tree Algorithms with Evolutionary Algorithms. <i>Evolutionary Computation</i> , 2013, 21, 659-684.	2.3	35

#	ARTICLE	IF	CITATIONS
19	Lexicographic multi-objective evolutionary induction of decision trees. International Journal of Bio-Inspired Computation, 2009, 1, 105.	0.6	32
20	A genetic algorithm for Hierarchical Multi-Label Classification. , 2012, , .		26
21	A hyper-heuristic evolutionary algorithm for automatically designing decision-tree algorithms. , 2012, , .		26
22	Software effort prediction. , 2013, , .		26
23	Automatic design of decision-tree induction algorithms tailored to flexible-receptor docking data. BMC Bioinformatics, 2012, 13, 310.	1.2	23
24	Deep neural networks for kitchen activity recognition. , 2017, , .		23
25	Bidirectional Retrieval Made Simple. , 2018, , .		23
26	LEGAL-tree. , 2009, , .		21
27	Hierarchical classification of Gene Ontology-based protein functions with neural networks. , 2015, , .		21
28	A framework for bottom-up induction of oblique decision trees. Neurocomputing, 2014, 135, 3-12.	3.5	20
29	Convolutions through time for multi-label movie genre classification. , 2017, , .		20
30	Evolving decision trees with beam search-based initialization and lexicographic multi-objective evaluation. Information Sciences, 2014, 258, 160-181.	4.0	18
31	(Deep) Learning from Frames. , 2016, , .		18
32	Inducing Hierarchical Multi-label Classification rules with Genetic Algorithms. Applied Soft Computing Journal, 2019, 77, 584-604.	4.1	18
33	Predicting software maintenance effort through evolutionary-based decision trees. , 2012, , .		17
34	Virtual guide dog: An application to support visually-impaired people through deep convolutional neural networks. , 2017, , .		17
35	A bottom-up oblique decision tree induction algorithm. , 2011, , .		16
36	Towards the automatic design of decision tree induction algorithms. , 2011, , .		16

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37	Order embeddings and character-level convolutions for multimodal alignment. Pattern Recognition Letters, 2018, 102, 15-22.	2.6	16
38	Hierarchical multi-label classification for protein function prediction: A local approach based on neural networks. , 2011, , .		15
39	A multi-task neural network for multilingual sentiment classification and language detection on Twitter. , 2018, , .		13
40	A meta-learning framework for algorithm recommendation in software fault prediction. , 2016, , .		12
41	Evolving decision-tree induction algorithms with a multi-objective hyper-heuristic. , 2015, , .		11
42	Evolutionary model tree induction. , 2010, , .		9
43	Probabilistic Clustering for Hierarchical Multi-Label Classification of Protein Functions. Lecture Notes in Computer Science, 2013, , 385-400.	1.0	9
44	Explainable Machine Learning for COVID-19 Pneumonia Classification With Texture-Based Features Extraction in Chest Radiography. Frontiers in Digital Health, 2021, 3, 662343.	1.5	9
45	A grammatical evolution approach for software effort estimation. , 2013, , .		8
46	Leveraging deep visual features for content-based movie recommender systems. , 2017, , .		7
47	CrowdEst: a method for estimating (and not simulating) crowd evacuation parameters in generic environments. Visual Computer, 2019, 35, 1119-1130.	2.5	7
48	Issues on Estimating Software Metrics in a Large Software Operation. , 2008, , .		6
49	A grammatical evolution algorithm for generation of Hierarchical Multi-Label Classification rules. , 2013, , .		6
50	A grammatical evolution based hyper-heuristic for the automatic design of split criteria. , 2014, , .		6
51	Real-Time Detection of Pedestrian Traffic Lights for Visually-Impaired People. , 2018, , .		6
52	Evolving relational hierarchical classification rules for predicting gene ontology-based protein functions. , 2014, , .		5
53	Evaluating the Feasibility of Deep Learning for Action Recognition in Small Datasets. , 2018, , .		5
54	Fast Self-Attentive Multimodal Retrieval. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
55	Decision-Tree Induction. SpringerBriefs in Computer Science, 2015, , 7-45.	0.2	5
56	Improving the offline clustering stage of data stream algorithms in scenarios with variable number of clusters. , 2012, , .		4
57	Clus-DTI: improving decision-tree classification with a clustering-based decision-tree induction algorithm. Journal of the Brazilian Computer Society, 2012, 18, 351-362.	0.8	4
58	Investigating fitness functions for a hyper-heuristic evolutionary algorithm in the context of balanced and imbalanced data classification. Genetic Programming and Evolvable Machines, 2015, 16, 241-281.	1.5	4
59	Seamless Nudity Censorship: an Image-to-Image Translation Approach based on Adversarial Training. , 2018, , .		4
60	Evolving balanced decision trees with a multi-population genetic algorithm. , 2015, , .		3
61	Enhancing discrimination power with genetic feature construction: A grammatical evolution approach. , 2016, , .		3
62	Medoid-based data clustering with estimation of distribution algorithms. , 2016, , .		3
63	An extensive experimental evaluation of automated machine learning methods for recommending classification algorithms. Evolutionary Intelligence, 2021, 14, 1895-1914.	2.3	3
64	HEAD-DT: Automatic Design of Decision-Tree Algorithms. SpringerBriefs in Computer Science, 2015, , 59-76.	0.2	3
65	An Experimental Analysis of Model Compression Techniques for Object Detection. , 0, , .		3
66	A Beam Search Based Decision Tree Induction Algorithm. , 2012, , 357-370.		3
67	An Oscillatory Correlation Model for Semi-Supervised Classification. Learning and Nonlinear Models, 2013, 11, 3-10.	0.2	3
68	A Novel Approach to Differentiate COVID-19 Pneumonia in Chest X-ray. , 2020, , .		3
69	A clustering-based decision tree induction algorithm. , 2011, , .		2
70	A Portable OpenCL-Based Approach for SVMs in GPU. , 2015, , .		2
71	PASCAL: An EDA for parameterless shape-independent clustering. , 2016, , .		2
72	Estimation of distribution algorithms for decision-tree induction. , 2017, , .		2

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73	Deep Neural Networks for Handwritten Chinese Character Recognition. , 2017, , .		2
74	An Evolutionary Algorithm for Learning Interpretable Ensembles of Classifiers. Lecture Notes in Computer Science, 2020, , 18-33.	1.0	2
75	Neural Networks for Hierarchical Classification of G-Protein Coupled Receptors. , 2013, , .		1
76	Attention-based Adversarial Training for Seamless Nudity Censorship. , 2019, , .		1
77	Component Analysis for Visual Question Answering Architectures. , 2020, , .		1
78	Model Compression in Object Detection. , 2021, , .		1
79	Evolutionary Algorithms and Hyper-Heuristics. SpringerBriefs in Computer Science, 2015, , 47-58.	0.2	1
80	How Does Computer Animation Affect Our Perception of Emotions in Video Summarization?. Lecture Notes in Computer Science, 2020, , 374-385.	1.0	1
81	Clustering Molecular Dynamics trajectories with a univariate estimation of distribution algorithm. , 2015, , .		0
82	Evolving regression trees robust to missing data. , 2015, , .		0
83	Increasing Boosting Effectiveness with Estimation of Distribution Algorithms. , 2018, , .		0
84	Fast and Efficient Text Classification with Class-based Embeddings. , 2019, , .		0
85	HEAD-DT: Fitness Function Analysis. SpringerBriefs in Computer Science, 2015, , 141-170.	0.2	0
86	HEAD-DT: Experimental Analysis. SpringerBriefs in Computer Science, 2015, , 77-139.	0.2	0
87	Redes Neurais Artificiais Aplicadas A Problemas De ClassificaÃ§Ã£o HierÃ¡rquica MultirrÃ³tulo. , 0, , .		0
88	Beating Bomberman with Artificial Intelligence. , 0, , .		0
89	Semi-supervised Classification of Chest Radiographs. Lecture Notes in Computer Science, 2020, , 172-179.	1.0	0