

Joao Gama

List of Publications by Year in descending order

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Version: 2024-02-01

172
papers

9,251
citations

109321

35
h-index

43889

91
g-index

177
all docs

177
docs citations

177
times ranked

7100
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods and tools for causal discovery and causal inference. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2022, 12, .	6.8	32
2	Tensor decomposition for analysing time-evolving social networks: an overview. Artificial Intelligence Review, 2021, 54, 2891-2916.	15.7	10
3	Multi-aspect renewable energy forecasting. Information Sciences, 2021, 546, 701-722.	6.9	49
4	Statistically Robust Evaluation of Stream-Based Recommender Systems. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 2971-2982.	5.7	7
5	Classification and Recommendation With Data Streams. Advances in Information Quality and Management, 2021, , 675-684.	0.2	1
6	Artificial intelligence, cyber-threats and Industry 4.0: challenges and opportunities. Artificial Intelligence Review, 2021, 54, 3849-3886.	15.7	91
7	Data stream analysis: Foundations, major tasks and tools. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2021, 11, e1405.	6.8	36
8	A Survey on Data-Driven Predictive Maintenance for the Railway Industry. Sensors, 2021, 21, 5739.	3.8	42
9	Hyperparameter self-tuning for data streams. Information Fusion, 2021, 76, 75-86.	19.1	22
10	An Analysis of Performance Metrics for Imbalanced Classification. Lecture Notes in Computer Science, 2021, , 67-77.	1.3	6
11	Current Trends in Learning from Data Streams. Lecture Notes in Computer Science, 2021, , 183-193.	1.3	0
12	Spatiotemporal Road Traffic Anomaly Detection: A Tensor-Based Approach. Applied Sciences (Switzerland), 2021, 11, 12017.	2.5	7
13	BRIGHT "Drift-Aware Demand Predictions for Taxi Networks. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 234-245.	5.7	25
14	A drift detection method based on dynamic classifier selection. Data Mining and Knowledge Discovery, 2020, 34, 50-74.	3.7	32
15	REST framework: A modelling approach towards cooling energy stress mitigation plans for future cities in warming Global South. Sustainable Cities and Society, 2020, 61, 102315.	10.4	13
16	On fast and scalable recurring link prediction in evolving multi-graph streams. Network Science, 2020, 8, S65-S81.	1.0	2
17	Impact of Trust and Reputation Based Brokerage on the CloudAnchor Platform. Lecture Notes in Computer Science, 2020, , 303-314.	1.3	2
18	Self Hyper-parameter Tuning for Stream Classification Algorithms. Communications in Computer and Information Science, 2020, , 3-13.	0.5	6

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19	NORMO: A new method for estimating the number of components in CP tensor decomposition. Engineering Applications of Artificial Intelligence, 2020, 96, 103926.	8.1	7
20	A Study on Imbalanced Data Streams. Communications in Computer and Information Science, 2020, , 380-389.	0.5	2
21	Optimizing Waste Collection: A Data Mining Approach. Communications in Computer and Information Science, 2020, , 570-578.	0.5	1
22	Failure Detection of an Air Production Unit in Operational Context. Communications in Computer and Information Science, 2020, , 61-74.	0.5	2
23	Spatiotemporal Traffic Anomaly Detection on Urban Road Network Using Tensor Decomposition Method. Lecture Notes in Computer Science, 2020, , 674-688.	1.3	3
24	Special Issue of DASFAA 2019. Data Science and Engineering, 2019, 4, 177-178.	6.4	0
25	Contrasting logical sequences in multi-relational learning. Progress in Artificial Intelligence, 2019, 8, 487-503.	2.4	1
26	Gait stride-to-stride variability and foot clearance pattern analysis in Idiopathic Parkinson's Disease and Vascular Parkinsonism. Journal of Biomechanics, 2019, 92, 98-104.	2.1	16
27	The search of conditional outliers. Intelligent Data Analysis, 2019, 23, 23-39.	0.9	5
28	Self Hyper-parameter Tuning for Stream Recommendation Algorithms. Communications in Computer and Information Science, 2019, , 91-102.	0.5	6
29	Correction to: Database Systems for Advanced Applications. Lecture Notes in Computer Science, 2019, , C1-C1.	1.3	0
30	Social network analysis: An overview. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1256.	6.8	127
31	Multi-label classification from high-speed data streams with adaptive model rules and random rules. Progress in Artificial Intelligence, 2018, 7, 177-187.	2.4	23
32	Predicting short term mood developments among depressed patients using adherence and ecological momentary assessment data. Internet Interventions, 2018, 12, 105-110.	2.7	20
33	Forgetting techniques for stream-based matrix factorization in recommender systems. Knowledge and Information Systems, 2018, 55, 275-304.	3.2	18
34	Guest Editorial Special Issue on Knowledge Discovery From Mobility Data for Intelligent Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3626-3629.	8.0	0
35	Improving acute kidney injury detection with conditional probabilities. Intelligent Data Analysis, 2018, 22, 1355-1374.	0.9	1
36	Online Gradient Boosting for Incremental Recommender Systems. Lecture Notes in Computer Science, 2018, , 209-223.	1.3	1

#	ARTICLE	IF	CITATIONS
37	Learning under Concept Drift: A Review. IEEE Transactions on Knowledge and Data Engineering, 2018, , 1-1.	5.7	394
38	A local algorithm to approximate the global clustering of streams generated in ubiquitous sensor networks. International Journal of Distributed Sensor Networks, 2018, 14, 155014771880823.	2.2	3
39	A comparison of hierarchical multi-output recognition approaches for anuran classification. Machine Learning, 2018, 107, 1651-1671.	5.4	14
40	On analyzing user preference dynamics with temporal social networks. Machine Learning, 2018, 107, 1745-1773.	5.4	22
41	Online bagging for recommender systems. Expert Systems, 2018, 35, e12303.	4.5	9
42	Dynamic graph summarization: a tensor decomposition approach. Data Mining and Knowledge Discovery, 2018, 32, 1397-1420.	3.7	11
43	Cover Image, Volume 8, Issue 5. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1281.	6.8	0
44	Fading histograms in detecting distribution and concept changes. International Journal of Data Science and Analytics, 2017, 3, 183-212.	4.1	9
45	Ensemble learning for data stream analysis: A survey. Information Fusion, 2017, 37, 132-156.	19.1	724
46	WCDS: A Two-Phase Weightless Neural System for Data Stream Clustering. New Generation Computing, 2017, 35, 391-416.	3.3	9
47	Computational Models for Social and Technical Interactions. New Generation Computing, 2017, 35, 307-310.	3.3	0
48	Weightless neural networks for open set recognition. Machine Learning, 2017, 106, 1547-1567.	5.4	29
49	An evolutionary algorithm for clustering data streams with a variable number of clusters. Expert Systems With Applications, 2017, 67, 228-238.	7.6	82
50	Scalable Online Top-N Recommender Systems. Lecture Notes in Business Information Processing, 2017, , 3-20.	1.0	6
51	Co-training Semi-supervised Learning for Single-Target Regression in Data Streams Using AMRules. Lecture Notes in Computer Science, 2017, , 499-508.	1.3	2
52	Acute Kidney Injury Detection: An Alarm System to Improve Early Treatment. Lecture Notes in Computer Science, 2017, , 57-63.	1.3	0
53	Mining multi-dimensional concept-drifting data streams using Bayesian network classifiers. Intelligent Data Analysis, 2016, 20, 257-280.	0.9	11
54	How to Correctly Evaluate an Automatic Bioacoustics Classification Method. Lecture Notes in Computer Science, 2016, , 37-47.	1.3	4

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55	Concept Neurons – Handling Drift Issues for Real-Time Industrial Data Mining. Lecture Notes in Computer Science, 2016, , 96-111.	1.3	6
56	Probabilistic forecasting of day-ahead electricity prices for the Iberian electricity market. , 2016, , .		5
57	Sequential anomalies: a study in the Railway Industry. Machine Learning, 2016, 105, 127-153.	5.4	29
58	Classification systems in dynamic environments: an overview. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2016, 6, 156-166.	6.8	10
59	Online Multi-label Classification with Adaptive Model Rules. Lecture Notes in Computer Science, 2016, , 58-67.	1.3	0
60	Online Semi-supervised Learning for Multi-target Regression in Data Streams Using AMRules. Lecture Notes in Computer Science, 2016, , 123-133.	1.3	3
61	On Using Temporal Networks to Analyze User Preferences Dynamics. Lecture Notes in Computer Science, 2016, , 408-423.	1.3	6
62	Recognizing Family, Genus, and Species of Anuran Using a Hierarchical Classification Approach. Lecture Notes in Computer Science, 2016, , 198-212.	1.3	5
63	Event detection from traffic tensors: A hybrid model. Neurocomputing, 2016, 203, 22-33.	5.9	31
64	An online learning approach to eliminate Bus Bunching in real-time. Applied Soft Computing Journal, 2016, 47, 460-482.	7.2	59
65	Novelty detection in data streams. Artificial Intelligence Review, 2016, 45, 235-269.	15.7	69
66	Dynamic community detection in evolving networks using locality modularity optimization. Social Network Analysis and Mining, 2016, 6, 1.	2.8	59
67	Tensor-based anomaly detection: An interdisciplinary survey. Knowledge-Based Systems, 2016, 98, 130-147.	7.1	105
68	Analyzing the behavior dynamics of grain price indexes using Tucker tensor decomposition and spatio-temporal trajectories. Computers and Electronics in Agriculture, 2016, 120, 72-78.	7.7	8
69	Adaptive Model Rules From High-Speed Data Streams. ACM Transactions on Knowledge Discovery From Data, 2016, 10, 1-22.	3.5	34
70	MINAS: multiclass learning algorithm for novelty detection in data streams. Data Mining and Knowledge Discovery, 2016, 30, 640-680.	3.7	57
71	Time-evolving O-D matrix estimation using high-speed GPS data streams. Expert Systems With Applications, 2016, 44, 275-288.	7.6	64
72	A new dynamic modeling framework for credit risk assessment. Expert Systems With Applications, 2016, 45, 341-351.	7.6	51

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73	Evolution Analysis of Call Ego-Networks. Lecture Notes in Computer Science, 2016, , 213-225.	1.3	1
74	Measures for Combining Prediction Intervals Uncertainty and Reliability in Forecasting. Advances in Intelligent Systems and Computing, 2016, , 147-157.	0.6	1
75	Multi-target regression from high-speed data streams with adaptive model rules. , 2015, , .		13
76	EigenEvent: An algorithm for event detection from complex data streams in syndromic surveillance. Intelligent Data Analysis, 2015, 19, 597-616.	0.9	10
77	Guest Editors introduction: special issue of the ECMLPKDD 2015 journal track. Machine Learning, 2015, 100, 157-159.	5.4	0
78	An overview on the exploitation of time in collaborative filtering. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2015, 5, 195-215.	6.8	23
79	Data Stream Classification Based on the Gamma Classifier. Mathematical Problems in Engineering, 2015, 2015, 1-17.	1.1	13
80	Eigenspace method for spatiotemporal hotspot detection. Expert Systems, 2015, 32, 454-464.	4.5	16
81	Evaluation of Multiclass Novelty Detection Algorithms for Data Streams. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2961-2973.	5.7	20
82	Classification of Evolving Data Streams with Infinitely Delayed Labels. , 2015, , .		25
83	Concept Drift Detection with Clustering via Statistical Change Detection Methods. , 2015, , .		9
84	A bounded neural network for open set recognition. , 2015, , .		15
85	Prediction intervals for electric load forecast: Evaluation for different profiles. , 2015, , .		4
86	Guest editors introduction: special issue of the ECMLPKDD 2015 journal track. Data Mining and Knowledge Discovery, 2015, 29, 1113-1115.	3.7	0
87	Exploring multi-relational temporal databases with a propositional sequence miner. Progress in Artificial Intelligence, 2015, 4, 11-20.	2.4	3
88	Improving Mass Transit Operations by Using AVL-Based Systems: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1636-1653.	8.0	80
89	Multi-aspect-streaming tensor analysis. Knowledge-Based Systems, 2015, 89, 332-345.	7.1	17
90	Data mining frequent temporal events in agrieconomic time series. IEEE Latin America Transactions, 2015, 13, 2329-2334.	1.6	3

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91	Visualization of evolving large scale ego-networks. , 2015, , .		3
92	Collaborative filtering with recency-based negative feedback. , 2015, , .		9
93	Forgetting methods for incremental matrix factorization in recommender systems. , 2015, , .		26
94	Online tree-based ensembles and option trees for regression on evolving data streams. Neurocomputing, 2015, 150, 458-470.	5.9	55
95	Very fast decision rules for classification in data streams. Data Mining and Knowledge Discovery, 2015, 29, 168-202.	3.7	33
96	Probabilistic change detection and visualization methods for the assessment of temporal stability in biomedical data quality. Data Mining and Knowledge Discovery, 2015, 29, 950-975.	3.7	19
97	Validating the coverage of bus schedules: A Machine Learning approach. Information Sciences, 2015, 293, 299-313.	6.9	37
98	An Experimental Study on Predictive Models Using Hierarchical Time Series. Lecture Notes in Computer Science, 2015, , 501-512.	1.3	0
99	Distributed Adaptive Model Rules for mining big data streams. , 2014, , .		13
100	Data stream mining in ubiquitous environments: state-of-the-art and current directions. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2014, 4, 116-138.	6.8	32
101	Collaborative Wind Power Forecast. Lecture Notes in Computer Science, 2014, , 162-171.	1.3	4
102	Unsupervised density-based behavior change detection in data streams. Intelligent Data Analysis, 2014, 18, 181-201.	0.9	4
103	An online learning framework for predicting the taxi stand's profitability. , 2014, , .		0
104	Distributed clustering of ubiquitous data streams. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2014, 4, 38-54.	6.8	11
105	Recurrent concepts in data streams classification. Knowledge and Information Systems, 2014, 40, 489-507.	3.2	34
106	Event labeling combining ensemble detectors and background knowledge. Progress in Artificial Intelligence, 2014, 2, 113-127.	2.4	161
107	Using Probabilistic Graphical Models to Enhance the Prognosis of Health-Related Quality of Life in Adult Survivors of Critical Illness. , 2014, , .		3
108	Enhancing data stream predictions with reliability estimators and explanation. Engineering Applications of Artificial Intelligence, 2014, 34, 178-192.	8.1	11

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109	Dynamic communities in evolving customer networks: an analysis using landmark and sliding windows. <i>Social Network Analysis and Mining</i> , 2014, 4, 1.	2.8	10
110	Constructing fading histograms from data streams. <i>Progress in Artificial Intelligence</i> , 2014, 3, 15-28.	2.4	2
111	A survey on concept drift adaptation. <i>ACM Computing Surveys</i> , 2014, 46, 1-37.	23.0	2,221
112	Data stream clustering. <i>ACM Computing Surveys</i> , 2013, 46, 1-31.	23.0	375
113	Real-time algorithm for changes detection in depth of anesthesia signals. <i>Evolving Systems</i> , 2013, 4, 3-12.	3.9	11
114	On evaluating stream learning algorithms. <i>Machine Learning</i> , 2013, 90, 317-346.	5.4	371
115	Visualization of evolving social networks using actor-level and community-level trajectories. <i>Expert Systems</i> , 2013, 30, 306-319.	4.5	4
116	Predicting Taxi-Passenger Demand Using Streaming Data. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013, 14, 1393-1402.	8.0	521
117	Evaluation Methodology for Multiclass Novelty Detection Algorithms. , 2013, , .		8
118	Contextual anomalies in medical data. , 2013, , .		0
119	On Predicting the Taxi-Passenger Demand: A Real-Time Approach. <i>Lecture Notes in Computer Science</i> , 2013, , 54-65.	1.3	29
120	Avoiding Anomalies in Data Stream Learning. <i>Lecture Notes in Computer Science</i> , 2013, , 49-63.	1.3	0
121	Contributions to a decision support system based on depth of anesthesia signals. , 2012, , .		3
122	A predictive model for the passenger demand on a taxi network. , 2012, , .		35
123	A framework to monitor clusters evolution applied to economy and finance problems. <i>Intelligent Data Analysis</i> , 2012, 16, 93-111.	0.9	31
124	An overview of social network analysis. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2012, 2, 99-115.	6.8	90
125	A survey on learning from data streams: current and future trends. <i>Progress in Artificial Intelligence</i> , 2012, 1, 45-55.	2.4	113
126	New Results on Minimum Error Entropy Decision Trees. <i>Lecture Notes in Computer Science</i> , 2011, , 355-362.	1.3	1

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127	Learning model trees from evolving data streams. Data Mining and Knowledge Discovery, 2011, 23, 128-168.	3.7	218
128	Best papers from the Fifth International Conference on Advanced Data Mining and Applications (ADMA) Tj ETQq0 0,0 rgBT /Overlock 10	3.2	0
129	Knowledge discovery from sensor data (SensorKDD). SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2011, 12, 50-53.	4.0	2
130	Ubiquitous Knowledge Discovery. Intelligent Data Analysis, 2011, 15, 1-1.	0.9	7
131	Clustering distributed sensor data streams using local processing and reduced communication. Intelligent Data Analysis, 2011, 15, 3-28.	0.9	49
132	Correcting Streaming Predictions of an Electricity Load Forecast System Using a Prediction Reliability Estimate. Advances in Intelligent and Soft Computing, 2011, , 343-350.	0.2	3
133	Visualizing the Evolution of Social Networks. Lecture Notes in Computer Science, 2011, , 476-490.	1.3	1
134	Online Evaluation of Email Streaming Classifiers Using GNUsmail. Lecture Notes in Computer Science, 2011, , 90-100.	1.3	0
135	Constrained Sequential Pattern Knowledge in Multi-relational Learning. Lecture Notes in Computer Science, 2011, , 282-296.	1.3	0
136	Change Detection with Kalman Filter and CUSUM. Lecture Notes in Computer Science, 2010, , 148-162.	1.3	4
137	A Simple Dense Pixel Visualization for Mobile Sensor Data Mining. Lecture Notes in Computer Science, 2010, , 175-189.	1.3	3
138	Monitoring Incremental Histogram Distribution for Change Detection in Data Streams. Lecture Notes in Computer Science, 2010, , 25-42.	1.3	14
139	Bipartite Graphs for Monitoring Clusters Transitions. Lecture Notes in Computer Science, 2010, , 114-124.	1.3	13
140	Sequential Pattern Mining in Multi-relational Datasets. Lecture Notes in Computer Science, 2010, , 121-130.	1.3	3
141	Resource Aware Distributed Knowledge Discovery. Lecture Notes in Computer Science, 2010, , 40-60.	1.3	0
142	Knowledge discovery from data streams. Intelligent Data Analysis, 2009, 13, 403-404.	0.9	15
143	A system for analysis and prediction of electricity-load streams. Intelligent Data Analysis, 2009, 13, 477-496.	0.9	26
144	Novelty detection with application to data streams. Intelligent Data Analysis, 2009, 13, 405-422.	0.9	43

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145	Adaptive Bayesian network classifiers. <i>Intelligent Data Analysis</i> , 2009, 13, 39-59.	0.9	7
146	Entropy and Correntropy Against Minimum Square Error in Offline and Online Three-Day Ahead Wind Power Forecasting. <i>IEEE Transactions on Power Systems</i> , 2009, 24, 1657-1666.	6.5	160
147	Issues in evaluation of stream learning algorithms. , 2009, , .		216
148	An Overview on Mining Data Streams. <i>Studies in Computational Intelligence</i> , 2009, , 29-45.	0.9	19
149	Change Detection in Climate Data over the Iberian Peninsula. , 2009, , .		3
150	Tracking Recurring Concepts with Meta-learners. <i>Lecture Notes in Computer Science</i> , 2009, , 423-434.	1.3	34
151	Regression Trees from Data Streams with Drift Detection. <i>Lecture Notes in Computer Science</i> , 2009, , 121-135.	1.3	32
152	Decision Trees Using the Minimum Entropy-of-Error Principle. <i>Lecture Notes in Computer Science</i> , 2009, , 799-807.	1.3	3
153	A review on the combination of binary classifiers in multiclass problems. <i>Artificial Intelligence Review</i> , 2008, 30, 19-37.	15.7	224
154	Clustering Distributed Sensor Data Streams. <i>Lecture Notes in Computer Science</i> , 2008, , 282-297.	1.3	14
155	Hierarchical Clustering of Time-Series Data Streams. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2008, 20, 615-627.	5.7	176
156	Cluster-based novel concept detection in data streams applied to intrusion detection in computer networks. , 2008, , .		48
157	RUSE-WARMR: Rule Selection for Classifier Induction in Multi-relational Data-Sets. , 2008, , .		5
158	THE DIMENSION OF ECOCs FOR MULTICLASS CLASSIFICATION PROBLEMS. <i>International Journal on Artificial Intelligence Tools</i> , 2008, 17, 433-447.	1.0	5
159	Improvement in wind power forecasting based on information entropy-related concepts. , 2008, , .		5
160	Improving the performance of an incremental algorithm driven by error margins. <i>Intelligent Data Analysis</i> , 2008, 12, 305-318.	0.9	9
161	Incremental discretization, application to data with concept drift. , 2007, , .		2
162	Title is missing!. <i>Journal of Retailing and Consumer Services</i> , 2007, 14, 357-358.	9.4	0

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163	OLINDDA. , 2007, , .		83
164	Decision trees for mining data streams. Intelligent Data Analysis, 2006, 10, 23-45.	0.9	101
165	An Overview on Learning from Data Streams. New Generation Computing, 2006, 25, 1-4.	3.3	7
166	Learning decision trees from dynamic data streams. , 2005, , .		59
167	On Data and Algorithms: Understanding Inductive Performance. Machine Learning, 2004, 54, 275-312.	5.4	59
168	Functional Trees. Machine Learning, 2004, 55, 219-250.	5.4	222
169	Iterative Bayes. Theoretical Computer Science, 2003, 292, 417-430.	0.9	36
170	Cascade Generalization. Machine Learning, 2000, 41, 315-343.	5.4	209
171	Regression using classification algorithms. Intelligent Data Analysis, 1997, 1, 275-292.	0.9	30
172	A sketch for the KS test for Big Data. , 0, , .		0