

# Joao Gama

## List of Publications by Year in descending order

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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	A survey on concept drift adaptation. ACM Computing Surveys, 2014, 46, 1-37.	23.0	2,221
2	Ensemble learning for data stream analysis: A survey. Information Fusion, 2017, 37, 132-156.	19.1	724
3	Predicting Taxiâ€ Passenger Demand Using Streaming Data. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1393-1402.	8.0	521
4	Learning under Concept Drift: A Review. IEEE Transactions on Knowledge and Data Engineering, 2018, , 1-1.	5.7	394
5	Data stream clustering. ACM Computing Surveys, 2013, 46, 1-31.	23.0	375
6	On evaluating stream learning algorithms. Machine Learning, 2013, 90, 317-346.	5.4	371
7	A review on the combination of binary classifiers in multiclass problems. Artificial Intelligence Review, 2008, 30, 19-37.	15.7	224
8	Functional Trees. Machine Learning, 2004, 55, 219-250.	5.4	222
9	Learning model trees from evolving data streams. Data Mining and Knowledge Discovery, 2011, 23, 128-168.	3.7	218
10	Issues in evaluation of stream learning algorithms. , 2009, , .		216
11	Cascade Generalization. Machine Learning, 2000, 41, 315-343.	5.4	209
12	Hierarchical Clustering of Time-Series Data Streams. IEEE Transactions on Knowledge and Data Engineering, 2008, 20, 615-627.	5.7	176
13	Event labeling combining ensemble detectors and background knowledge. Progress in Artificial Intelligence, 2014, 2, 113-127.	2.4	161
14	Entropy and Correntropy Against Minimum Square Error in Offline and Online Three-Day Ahead Wind Power Forecasting. IEEE Transactions on Power Systems, 2009, 24, 1657-1666.	6.5	160
15	Social network analysis: An overview. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1256.	6.8	127
16	A survey on learning from data streams: current and future trends. Progress in Artificial Intelligence, 2012, 1, 45-55.	2.4	113
17	Tensor-based anomaly detection: An interdisciplinary survey. Knowledge-Based Systems, 2016, 98, 130-147.	7.1	105
18	Decision trees for mining data streams. Intelligent Data Analysis, 2006, 10, 23-45.	0.9	101

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19	Artificial intelligence, cyber-threats and Industry 4.0: challenges and opportunities. Artificial Intelligence Review, 2021, 54, 3849-3886.	15.7	91
20	An overview of social network analysis. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2012, 2, 99-115.	6.8	90
21	OLINDDA. , 2007, , .		83
22	An evolutionary algorithm for clustering data streams with a variable number of clusters. Expert Systems With Applications, 2017, 67, 228-238.	7.6	82
23	Improving Mass Transit Operations by Using AVL-Based Systems: A Survey. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1636-1653.	8.0	80
24	Novelty detection in data streams. Artificial Intelligence Review, 2016, 45, 235-269.	15.7	69
25	Time-evolving O-D matrix estimation using high-speed GPS data streams. Expert Systems With Applications, 2016, 44, 275-288.	7.6	64
26	On Data and Algorithms: Understanding Inductive Performance. Machine Learning, 2004, 54, 275-312.	5.4	59
27	Learning decision trees from dynamic data streams. , 2005, , .		59
28	An online learning approach to eliminate Bus Bunching in real-time. Applied Soft Computing Journal, 2016, 47, 460-482.	7.2	59
29	Dynamic community detection in evolving networks using locality modularity optimization. Social Network Analysis and Mining, 2016, 6, 1.	2.8	59
30	MINAS: multiclass learning algorithm for novelty detection in data streams. Data Mining and Knowledge Discovery, 2016, 30, 640-680.	3.7	57
31	Online tree-based ensembles and option trees for regression on evolving data streams. Neurocomputing, 2015, 150, 458-470.	5.9	55
32	A new dynamic modeling framework for credit risk assessment. Expert Systems With Applications, 2016, 45, 341-351.	7.6	51
33	Clustering distributed sensor data streams using local processing and reduced communication. Intelligent Data Analysis, 2011, 15, 3-28.	0.9	49
34	Multi-aspect renewable energy forecasting. Information Sciences, 2021, 546, 701-722.	6.9	49
35	Cluster-based novel concept detection in data streams applied to intrusion detection in computer networks. , 2008, , .		48
36	Novelty detection with application to data streams. Intelligent Data Analysis, 2009, 13, 405-422.	0.9	48

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37	A Survey on Data-Driven Predictive Maintenance for the Railway Industry. <i>Sensors</i> , 2021, 21, 5739.	3.8	42
38	Validating the coverage of bus schedules: A Machine Learning approach. <i>Information Sciences</i> , 2015, 293, 299-313.	6.9	37
39	Iterative Bayes. <i>Theoretical Computer Science</i> , 2003, 292, 417-430.	0.9	36
40	Data stream analysis: Foundations, major tasks and tools. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2021, 11, e1405.	6.8	36
41	A predictive model for the passenger demand on a taxi network. , 2012, , .		35
42	Recurrent concepts in data streams classification. <i>Knowledge and Information Systems</i> , 2014, 40, 489-507.	3.2	34
43	Adaptive Model Rules From High-Speed Data Streams. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2016, 10, 1-22.	3.5	34
44	Tracking Recurring Concepts with Meta-learners. <i>Lecture Notes in Computer Science</i> , 2009, , 423-434.	1.3	34
45	Very fast decision rules for classification in data streams. <i>Data Mining and Knowledge Discovery</i> , 2015, 29, 168-202.	3.7	33
46	Data stream mining in ubiquitous environments: state-of-the-art and current directions. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2014, 4, 116-138.	6.8	32
47	A drift detection method based on dynamic classifier selection. <i>Data Mining and Knowledge Discovery</i> , 2020, 34, 50-74.	3.7	32
48	Regression Trees from Data Streams with Drift Detection. <i>Lecture Notes in Computer Science</i> , 2009, , 121-135.	1.3	32
49	Methods and tools for causal discovery and causal inference. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2022, 12, .	6.8	32
50	A framework to monitor clusters evolution applied to economy and finance problems. <i>Intelligent Data Analysis</i> , 2012, 16, 93-111.	0.9	31
51	Event detection from traffic tensors: A hybrid model. <i>Neurocomputing</i> , 2016, 203, 22-33.	5.9	31
52	Regression using classification algorithms. <i>Intelligent Data Analysis</i> , 1997, 1, 275-292.	0.9	30
53	Sequential anomalies: a study in the Railway Industry. <i>Machine Learning</i> , 2016, 105, 127-153.	5.4	29
54	Weightless neural networks for open set recognition. <i>Machine Learning</i> , 2017, 106, 1547-1567.	5.4	29

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55	On Predicting the Taxi-Passenger Demand: A Real-Time Approach. Lecture Notes in Computer Science, 2013, , 54-65.	1.3	29
56	A system for analysis and prediction of electricity-load streams. Intelligent Data Analysis, 2009, 13, 477-496.	0.9	26
57	Forgetting methods for incremental matrix factorization in recommender systems. , 2015, , .		26
58	Classification of Evolving Data Streams with Infinitely Delayed Labels. , 2015, , .		25
59	BRIGHTâ€”Drift-Aware Demand Predictions for Taxi Networks. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 234-245.	5.7	25
60	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
61	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
62	On analyzing user preference dynamics with temporal social networks. Machine Learning, 2018, 107, 1745-1773.	5.4	22
63	Hyperparameter self-tuning for data streams. Information Fusion, 2021, 76, 75-86.	19.1	22
64	Evaluation of Multiclass Novelty Detection Algorithms for Data Streams. IEEE Transactions on Knowledge and Data Engineering, 2015, 27, 2961-2973.	5.7	20
65	Predicting short term mood developments among depressed patients using adherence and ecological momentary assessment data. Internet Interventions, 2018, 12, 105-110.	2.7	20
66	An Overview on Mining Data Streams. Studies in Computational Intelligence, 2009, , 29-45.	0.9	19
67	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
68	Forgetting techniques for stream-based matrix factorization in recommender systems. Knowledge and Information Systems, 2018, 55, 275-304.	3.2	18
69	Multi-aspect-streaming tensor analysis. Knowledge-Based Systems, 2015, 89, 332-345.	7.1	17
70	Eigenspace method for spatiotemporal hotspot detection. Expert Systems, 2015, 32, 454-464.	4.5	16
71	Gait stride-to-stride variability and foot clearance pattern analysis in Idiopathic Parkinsonâ€™s Disease and Vascular Parkinsonism. Journal of Biomechanics, 2019, 92, 98-104.	2.1	16
72	Knowledge discovery from data streams. Intelligent Data Analysis, 2009, 13, 403-404.	0.9	15

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73	A bounded neural network for open set recognition. , 2015, , .		15
74	Clustering Distributed Sensor Data Streams. Lecture Notes in Computer Science, 2008, , 282-297.	1.3	14
75	A comparison of hierarchical multi-output recognition approaches for anuran classification. Machine Learning, 2018, 107, 1651-1671.	5.4	14
76	Monitoring Incremental Histogram Distribution for Change Detection in Data Streams. Lecture Notes in Computer Science, 2010, , 25-42.	1.3	14
77	Distributed Adaptive Model Rules for mining big data streams. , 2014, , .		13
78	Multi-target regression from high-speed data streams with adaptive model rules. , 2015, , .		13
79	Data Stream Classification Based on the Gamma Classifier. Mathematical Problems in Engineering, 2015, 2015, 1-17.	1.1	13
80	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
81	Bipartite Graphs for Monitoring Clusters Transitions. Lecture Notes in Computer Science, 2010, , 114-124.	1.3	13
82	Real-time algorithm for changes detection in depth of anesthesia signals. Evolving Systems, 2013, 4, 3-12.	3.9	11
83	Distributed clustering of ubiquitous data streams. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2014, 4, 38-54.	6.8	11
84	Enhancing data stream predictions with reliability estimators and explanation. Engineering Applications of Artificial Intelligence, 2014, 34, 178-192.	8.1	11
85	Mining multi-dimensional concept-drifting data streams using Bayesian network classifiers. Intelligent Data Analysis, 2016, 20, 257-280.	0.9	11
86	Dynamic graph summarization: a tensor decomposition approach. Data Mining and Knowledge Discovery, 2018, 32, 1397-1420.	3.7	11
87	Dynamic communities in evolving customer networks: an analysis using landmark and sliding windows. Social Network Analysis and Mining, 2014, 4, 1.	2.8	10
88	EigenEvent: An algorithm for event detection from complex data streams in syndromic surveillance. Intelligent Data Analysis, 2015, 19, 597-616.	0.9	10
89	Classification systems in dynamic environments: an overview. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2016, 6, 156-166.	6.8	10
90	Tensor decomposition for analysing time-evolving social networks: an overview. Artificial Intelligence Review, 2021, 54, 2891-2916.	15.7	10

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91	Improving the performance of an incremental algorithm driven by error margins. Intelligent Data Analysis, 2008, 12, 305-318.	0.9	9
92	Concept Drift Detection with Clustering via Statistical Change Detection Methods. , 2015, , .		9
93	Collaborative filtering with recency-based negative feedback. , 2015, , .		9
94	Fading histograms in detecting distribution and concept changes. International Journal of Data Science and Analytics, 2017, 3, 183-212.	4.1	9
95	WCDS: A Two-Phase Weightless Neural System for Data Stream Clustering. New Generation Computing, 2017, 35, 391-416.	3.3	9
96	Online bagging for recommender systems. Expert Systems, 2018, 35, e12303.	4.5	9
97	Evaluation Methodology for Multiclass Novelty Detection Algorithms. , 2013, , .		8
98	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
99	An Overview on Learning from Data Streams. New Generation Computing, 2006, 25, 1-4.	3.3	7
100	Adaptive Bayesian network classifiers. Intelligent Data Analysis, 2009, 13, 39-59.	0.9	7
101	Ubiquitous Knowledge Discovery. Intelligent Data Analysis, 2011, 15, 1-1.	0.9	7
102	Statistically Robust Evaluation of Stream-Based Recommender Systems. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 2971-2982.	5.7	7
103	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
104	Spatiotemporal Road Traffic Anomaly Detection: A Tensor-Based Approach. Applied Sciences (Switzerland), 2021, 11, 12017.	2.5	7
105	Concept Neurons “ Handling Drift Issues for Real-Time Industrial Data Mining. Lecture Notes in Computer Science, 2016, , 96-111.	1.3	6
106	On Using Temporal Networks to Analyze User Preferences Dynamics. Lecture Notes in Computer Science, 2016, , 408-423.	1.3	6
107	Self Hyper-parameter Tuning for Stream Recommendation Algorithms. Communications in Computer and Information Science, 2019, , 91-102.	0.5	6
108	Self Hyper-parameter Tuning for Stream Classification Algorithms. Communications in Computer and Information Science, 2020, , 3-13.	0.5	6

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109	Scalable Online Top-N Recommender Systems. Lecture Notes in Business Information Processing, 2017, , 3-20.	1.0	6
110	An Analysis of Performance Metrics for Imbalanced Classification. Lecture Notes in Computer Science, 2021, , 67-77.	1.3	6
111	RUSE-WARMR: Rule Selection for Classifier Induction in Multi-relational Data-Sets. , 2008, , .		5
112	THE DIMENSION OF ECOCs FOR MULTICLASS CLASSIFICATION PROBLEMS. International Journal on Artificial Intelligence Tools, 2008, 17, 433-447.	1.0	5
113	Improvement in wind power forecasting based on information entropy-related concepts. , 2008, , .		5
114	Probabilistic forecasting of day-ahead electricity prices for the Iberian electricity market. , 2016, , .		5
115	Recognizing Family, Genus, and Species of Anuran Using a Hierarchical Classification Approach. Lecture Notes in Computer Science, 2016, , 198-212.	1.3	5
116	The search of conditional outliers. Intelligent Data Analysis, 2019, 23, 23-39.	0.9	5
117	Change Detection with Kalman Filter and CUSUM. Lecture Notes in Computer Science, 2010, , 148-162.	1.3	4
118	Visualization of evolving social networks using actorâ€level and communityâ€level trajectories. Expert Systems, 2013, 30, 306-319.	4.5	4
119	Collaborative Wind Power Forecast. Lecture Notes in Computer Science, 2014, , 162-171.	1.3	4
120	Unsupervised density-based behavior change detection in data streams. Intelligent Data Analysis, 2014, 18, 181-201.	0.9	4
121	Prediction intervals for electric load forecast: Evaluation for different profiles. , 2015, , .		4
122	How to Correctly Evaluate an Automatic Bioacoustics Classification Method. Lecture Notes in Computer Science, 2016, , 37-47.	1.3	4
123	Change Detection in Climate Data over the Iberian Peninsula. , 2009, , .		3
124	Contributions to a decision support system based on depth of anesthesia signals. , 2012, , .		3
125	Using Probabilistic Graphical Models to Enhance the Prognosis of Health-Related Quality of Life in Adult Survivors of Critical Illness. , 2014, , .		3
126	Exploring multi-relational temporal databases with a propositional sequence miner. Progress in Artificial Intelligence, 2015, 4, 11-20.	2.4	3



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127	Data mining frequent temporal events in agrieconomic time series. IEEE Latin America Transactions, 2015, 13, 2329-2334.	1.6	3
128	Visualizaton of evolving large scale ego-networks. , 2015, , .		3
129	Online Semi-supervised Learning for Multi-target Regression in Data Streams Using AMRules. Lecture Notes in Computer Science, 2016, , 123-133.	1.3	3
130	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
131	A Simple Dense Pixel Visualization for Mobile Sensor Data Mining. Lecture Notes in Computer Science, 2010, , 175-189.	1.3	3
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	Decision Trees Using the Minimum Entropy-of-Error Principle. Lecture Notes in Computer Science, 2009, , 799-807.	1.3	3
134	Sequential Pattern Mining in Multi-relational Datasets. Lecture Notes in Computer Science, 2010, , 121-130.	1.3	3
135	Spatiotemporal Traffic Anomaly Detection on Urban Road Network Using Tensor Decomposition Method. Lecture Notes in Computer Science, 2020, , 674-688.	1.3	3
136	Incremental discretization, application to data with concept drift. , 2007, , .		2
137	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
138	Constructing fading histograms from data streams. Progress in Artificial Intelligence, 2014, 3, 15-28.	2.4	2
139	On fast and scalable recurring linkâ€™s prediction in evolving multi-graph streams. Network Science, 2020, 8, S65-S81.	1.0	2
140	Impact of Trust and Reputation Based Brokerage on the CloudAnchor Platform. Lecture Notes in Computer Science, 2020, , 303-314.	1.3	2
141	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
142	A Study on Imbalanced Data Streams. Communications in Computer and Information Science, 2020, , 380-389.	0.5	2
143	Failure Detection of an Air Production Unit in Operational Context. Communications in Computer and Information Science, 2020, , 61-74.	0.5	2
144	New Results on Minimum Error Entropy Decision Trees. Lecture Notes in Computer Science, 2011, , 355-362.	1.3	1

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145	Improving acute kidney injury detection with conditional probabilities. Intelligent Data Analysis, 2018, 22, 1355-1374.	0.9	1
146	Online Gradient Boosting for Incremental Recommender Systems. Lecture Notes in Computer Science, 2018, , 209-223.	1.3	1
147	Contrasting logical sequences in multi-relational learning. Progress in Artificial Intelligence, 2019, 8, 487-503.	2.4	1
148	Classification and Recommendation With Data Streams. Advances in Information Quality and Management, 2021, , 675-684.	0.2	1
149	Evolution Analysis of Call Ego-Networks. Lecture Notes in Computer Science, 2016, , 213-225.	1.3	1
150	Visualizing the Evolution of Social Networks. Lecture Notes in Computer Science, 2011, , 476-490.	1.3	1
151	Measures for Combining Prediction Intervals Uncertainty and Reliability in Forecasting. Advances in Intelligent Systems and Computing, 2016, , 147-157.	0.6	1
152	Optimizing Waste Collection: A Data Mining Approach. Communications in Computer and Information Science, 2020, , 570-578.	0.5	1
153	Title is missing!. Journal of Retailing and Consumer Services, 2007, 14, 357-358.	9.4	0
154	Best papers from the Fifth International Conference on Advanced Data Mining and Applications (ADMA) Tj ETQq0 0,0 rgBT /Overlock 10	3.2	0
155	Contextual anomalies in medical data. , 2013, , .		0
156	An online learning framework for predicting the taxi stand's profitability. , 2014, , .		0
157	Guest Editors introduction: special issue of the ECMLPKDD 2015 journal track. Machine Learning, 2015, 100, 157-159.	5.4	0
158	Guest editors introduction: special issue of the ECMLPKDD 2015 journal track. Data Mining and Knowledge Discovery, 2015, 29, 1113-1115.	3.7	0
159	Online Multi-label Classification with Adaptive Model Rules. Lecture Notes in Computer Science, 2016, , 58-67.	1.3	0
160	Computational Models for Social and Technical Interactions. New Generation Computing, 2017, 35, 307-310.	3.3	0
161	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
162	Cover Image, Volume 8, Issue 5. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1281.	6.8	0

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163	Special Issue of DASFAA 2019. Data Science and Engineering, 2019, 4, 177-178.	6.4	0
164	Resource Aware Distributed Knowledge Discovery. Lecture Notes in Computer Science, 2010, , 40-60.	1.3	0
165	Online Evaluation of Email Streaming Classifiers Using GNUsmail. Lecture Notes in Computer Science, 2011, , 90-100.	1.3	0
166	Constrained Sequential Pattern Knowledge in Multi-relational Learning. Lecture Notes in Computer Science, 2011, , 282-296.	1.3	0
167	Avoiding Anomalies in Data Stream Learning. Lecture Notes in Computer Science, 2013, , 49-63.	1.3	0
168	An Experimental Study on Predictive Models Using Hierarchical Time Series. Lecture Notes in Computer Science, 2015, , 501-512.	1.3	0
169	Acute Kidney Injury Detection: An Alarm System to Improve Early Treatment. Lecture Notes in Computer Science, 2017, , 57-63.	1.3	0
170	Correction to: Database Systems for Advanced Applications. Lecture Notes in Computer Science, 2019, , C1-C1.	1.3	0
171	Current Trends in Learning from Data Streams. Lecture Notes in Computer Science, 2021, , 183-193.	1.3	0
172	A sketch for the KS test for Big Data. , 0, , .		0