

Albert Bifet

List of Publications by Year in descending order

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133
papers

8,254
citations

201674

27
h-index

69250

77
g-index

138
all docs

138
docs citations

138
times ranked

5026
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey on concept drift adaptation. ACM Computing Surveys, 2014, 46, 1-37.	23.0	2,221
2	Learning from Time-Changing Data with Adaptive Windowing. , 2007, , .		863
3	Mining big data. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2013, 14, 1-5.	4.0	553
4	Adaptive random forests for evolving data stream classification. Machine Learning, 2017, 106, 1469-1495.	5.4	415
5	New ensemble methods for evolving data streams. , 2009, , .		359
6	A Survey on Ensemble Learning for Data Stream Classification. ACM Computing Surveys, 2018, 50, 1-36.	23.0	342
7	Sentiment Knowledge Discovery in Twitter Streaming Data. Lecture Notes in Computer Science, 2010, , 1-15.	1.3	288
8	Active Learning With Drifting Streaming Data. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 27-39.	11.3	258
9	Adaptive Learning from Evolving Data Streams. Lecture Notes in Computer Science, 2009, , 249-260.	1.3	251
10	Leveraging Bagging for Evolving Data Streams. Lecture Notes in Computer Science, 2010, , 135-150.	1.3	183
11	Machine learning for streaming data. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2019, 21, 6-22.	4.0	137
12	Spiking Neural Networks and online learning: An overview and perspectives. Neural Networks, 2020, 121, 88-100.	5.9	136
13	Scalable and efficient multi-label classification for evolving data streams. Machine Learning, 2012, 88, 243-272.	5.4	118
14	Efficient Online Evaluation of Big Data Stream Classifiers. , 2015, , .		99
15	Evaluation methods and decision theory for classification of streaming data with temporal dependence. Machine Learning, 2015, 98, 455-482.	5.4	92
16	An effective evaluation measure for clustering on evolving data streams. , 2011, , .		68
17	Next challenges for adaptive learning systems. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2012, 14, 48-55.	4.0	67
18	Fast Perceptron Decision Tree Learning from Evolving Data Streams. Lecture Notes in Computer Science, 2010, , 299-310.	1.3	61

#	ARTICLE	IF	CITATIONS
19	Batch-Incremental versus Instance-Incremental Learning in Dynamic and Evolving Data. Lecture Notes in Computer Science, 2012, , 313-323.	1.3	58
20	Efficient data stream classification via probabilistic adaptive windows. , 2013, , .		58
21	IoT Big Data Stream Mining. , 2016, , .		53
22	Extremely Fast Decision Tree Mining for Evolving Data Streams. , 2017, , .		50
23	Mining frequent closed graphs on evolving data streams. , 2011, , .		48
24	Pitfalls in Benchmarking Data Stream Classification and How to Avoid Them. Lecture Notes in Computer Science, 2013, , 465-479.	1.3	46
25	Adaptive learning and mining for data streams and frequent patterns. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2009, 11, 55-56.	4.0	46
26	Streaming Random Patches for Evolving Data Stream Classification. , 2019, , .		45
27	On learning guarantees to unsupervised concept drift detection on data streams. Expert Systems With Applications, 2019, 117, 90-102.	7.6	38
28	Improving Adaptive Bagging Methods for Evolving Data Streams. Lecture Notes in Computer Science, 2009, , 23-37.	1.3	38
29	Bitcoin Volatility Forecasting with a Glimpse into Buy and Sell Orders. , 2018, , .		37
30	Data stream analysis: Foundations, major tasks and tools. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2021, 11, e1405.	6.8	36
31	Adaptive Model Rules From High-Speed Data Streams. ACM Transactions on Knowledge Discovery From Data, 2016, 10, 1-22.	3.5	34
32	Kalman Filters and Adaptive Windows for Learning in Data Streams. Lecture Notes in Computer Science, 2006, , 29-40.	1.3	34
33	Active Learning with Evolving Streaming Data. Lecture Notes in Computer Science, 2011, , 597-612.	1.3	33
34	StreamDM: Advanced Data Mining in Spark Streaming. , 2015, , .		32
35	Big Data Stream Learning with SAMOA. , 2014, , .		31
36	Clustering Based Active Learning for Evolving Data Streams. Lecture Notes in Computer Science, 2013, , 79-93.	1.3	31

#	ARTICLE	IF	CITATIONS
37	VHT: Vertical hoeffding tree. , 2016, , .		28
38	Recurring concept meta-learning for evolving data streams. Expert Systems With Applications, 2019, 138, 112832.	7.6	28
39	Merit-guided dynamic feature selection filter for data streams. Expert Systems With Applications, 2019, 116, 227-242.	7.6	28
40	Mining adaptively frequent closed unlabeled rooted trees in data streams. , 2008, , .		27
41	Multi-label Classification with Meta-Labels. , 2014, , .		24
42	Boosting decision stumps for dynamic feature selection on data streams. Information Systems, 2019, 83, 13-29.	3.6	24
43	Adaptive XGBoost for Evolving Data Streams. , 2020, , .		24
44	Ensembles of Restricted Hoeffding Trees. ACM Transactions on Intelligent Systems and Technology, 2012, 3, 1-20.	4.5	23
45	A streaming flow-based technique for traffic classification applied to 12 + 1 years of Internet traffic. Telecommunication Systems, 2016, 63, 191-204.	2.5	22
46	Deep learning in partially-labeled data streams. , 2015, , .		21
47	On Dynamic Feature Weighting for Feature Drifting Data Streams. Lecture Notes in Computer Science, 2016, , 129-144.	1.3	21
48	Classifier Concept Drift Detection and the Illusion of Progress. Lecture Notes in Computer Science, 2017, , 715-725.	1.3	20
49	CD-MOA: Change Detection Framework for Massive Online Analysis. Lecture Notes in Computer Science, 2013, , 92-103.	1.3	20
50	MOA-TweetReader: Real-Time Analysis in Twitter Streaming Data. Lecture Notes in Computer Science, 2011, , 46-60.	1.3	19
51	Mining frequent closed rooted trees. Machine Learning, 2010, 78, 1-33.	5.4	18
52	Delayed labelling evaluation for data streams. Data Mining and Knowledge Discovery, 2020, 34, 1237-1266.	3.7	17
53	Clustering Performance on Evolving Data Streams: Assessing Algorithms and Evaluation Measures within MOA. , 2010, , .		16
54	Drift Detection Using Stream Volatility. Lecture Notes in Computer Science, 2015, , 417-432.	1.3	15

#	ARTICLE	IF	CITATIONS
55	Distributed Adaptive Model Rules for mining big data streams. , 2014, , .		13
56	Inferring Demographics and Social Networks of Mobile Device Users on Campus From AP-Trajectories. , 2017, , .		13
57	A Sketch-Based Naive Bayes Algorithms for Evolving Data Streams. , 2018, , .		13
58	Sampling informative patterns from large single networks. Future Generation Computer Systems, 2020, 106, 653-658.	7.5	13
59	Binding data mining and expert knowledge for one-day-ahead prediction of hourly global solar radiation. Expert Systems With Applications, 2021, 167, 114147.	7.6	13
60	Mining frequent closed trees in evolving data streams. Intelligent Data Analysis, 2011, 15, 29-48.	0.9	12
61	EXAD: A System for Explainable Anomaly Detection on Big Data Traces. , 2018, , .		12
62	Adaptive XML Tree Classification on Evolving Data Streams. Lecture Notes in Computer Science, 2009, , 147-162.	1.3	12
63	An efficient closed frequent itemset miner for the MOA stream mining system. AI Communications, 2015, 28, 143-158.	1.2	11
64	Data stream classification using random feature functions and novel method combinations. Journal of Systems and Software, 2017, 127, 195-204.	4.5	11
65	Semi-supervised Learning over Streaming Data using MOA. , 2019, , .		11
66	FARF: A Fair and Adaptive Random Forests Classifier. Lecture Notes in Computer Science, 2021, , 245-256.	1.3	11
67	vertTIRP: Robust and efficient vertical frequent time interval-related pattern mining. Expert Systems With Applications, 2021, 168, 114276.	7.6	10
68	Survey on Feature Transformation Techniques for Data Streams. , 2020, , .		10
69	Stream Data Mining Using the MOA Framework. Lecture Notes in Computer Science, 2012, , 309-313.	1.3	9
70	Telemetry-based stream-learning of BGP anomalies. , 2018, , .		9
71	Efficient frequent subgraph mining on large streaming graphs. Intelligent Data Analysis, 2019, 23, 103-132.	0.9	9
72	Analyzing and repairing concept drift adaptation in data stream classification. Machine Learning, 2022, 111, 3489-3523.	5.4	9

#	ARTICLE	IF	CITATIONS
73	Efficient Exact and Approximate Algorithms for Computing Betweenness Centrality in Directed Graphs. Lecture Notes in Computer Science, 2018, , 752-764.	1.3	9
74	Incremental Ensemble Classifier Addressing Non-stationary Fast Data Streams. , 2014, , .		8
75	Feature Scoring using Tree-Based Ensembles for Evolving Data Streams. , 2019, , .		8
76	Adaptive Random Forests with Resampling for Imbalanced data Streams. , 2019, , .		8
77	Incremental Rebalancing Learning on Evolving Data Streams. , 2020, , .		8
78	A Survey on Semi-supervised Learning for Delayed Partially Labelled Data Streams. ACM Computing Surveys, 2023, 55, 1-42.	23.0	8
79	Low-latency multi-threaded ensemble learning for dynamic big data streams. , 2017, , .		7
80	DyBED: An Efficient Algorithm for Updating Betweenness Centrality in Directed Dynamic Graphs. , 2018, , .		7
81	Unsupervised Concept Drift Detection Using a Studentâ€“Teacher Approach. Lecture Notes in Computer Science, 2020, , 190-204.	1.3	7
82	Change detection in categorical evolving data streams. , 2014, , .		6
83	Use of ensembles of Fourier spectra in capturing recurrent concepts in data streams. , 2015, , .		6
84	Measuring the Shattering coefficient of Decision Tree models. Expert Systems With Applications, 2019, 137, 443-452.	7.6	6
85	Recurring concept memory management in data streams: exploiting data stream concept evolution to improve performance and transparency. Data Mining and Knowledge Discovery, 2021, 35, 796-836.	3.7	6
86	Learning from evolving data streams through ensembles of random patches. Knowledge and Information Systems, 2021, 63, 1597-1625.	3.2	6
87	Improving the performance of bagging ensembles for data streams through mini-batching. Information Sciences, 2021, 580, 260-282.	6.9	6
88	FEAT: A Fairness-Enhancing and Concept-Adapting Decision Tree Classifier. Lecture Notes in Computer Science, 2020, , 175-189.	1.3	6
89	STUDD: a studentâ€“teacher method for unsupervised concept drift detection. Machine Learning, 2023, 112, 4351-4378.	5.4	6
90	Predicting attributes and friends of mobile users from AP-Trajectories. Information Sciences, 2018, 463-464, 110-128.	6.9	5

#	ARTICLE	IF	CITATIONS
91	Unsupervised real-time detection of BGP anomalies leveraging high-rate and fine-grained telemetry data. , 2018, , .		5
92	Exploiting the stimuli encoding scheme of evolving Spiking Neural Networks for stream learning. Neural Networks, 2020, 123, 118-133.	5.9	5
93	Fingerprinting Concepts in Data Streams with Supervised and Unsupervised Meta-Information. , 2021, , .		5
94	Efficient Batch-Incremental Classification Using UMAP for Evolving Data Streams. Lecture Notes in Computer Science, 2020, , 40-53.	1.3	5
95	Mining Frequent Closed Unordered Trees Through Natural Representations. Lecture Notes in Computer Science, 2007, , 347-359.	1.3	5
96	Subtree Testing and Closed Tree Mining Through Natural Representations. , 2007, , .		4
97	An In-depth Comparison of Group Betweenness Centrality Estimation Algorithms. , 2018, , .		4
98	Learning Fast and Slow: A Unified Batch/Stream Framework. , 2018, , .		4
99	Discriminative Distance-Based Network Indices with Application to Link Prediction. Computer Journal, 2018, 61, 998-1014.	2.4	4
100	Performance measures for evolving predictions under delayed labelling classification. , 2020, , .		4
101	Energy modeling of Hoeffding tree ensembles. Intelligent Data Analysis, 2021, 25, 81-104.	0.9	4
102	CURIE: a cellular automaton for concept drift detection. Data Mining and Knowledge Discovery, 2021, 35, 2655-2678.	3.7	4
103	Data Stream Mining. , 2014, , 664-666.		4
104	An eager splitting strategy for online decision trees in ensembles. Data Mining and Knowledge Discovery, 2022, 36, 566-619.	3.7	4
105	Evolution-Based Online Automated Machine Learning. Lecture Notes in Computer Science, 2022, , 472-484.	1.3	4
106	Droplet Ensemble Learning on Drifting Data Streams. Lecture Notes in Computer Science, 2017, , 210-222.	1.3	3
107	Predicting over-indebtedness on batch and streaming data. , 2017, , .		3
108	Arbitrated Dynamic Ensemble with Abstaining for Time-Series Forecasting on Data Streams. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
109	Fifth special issue on knowledge discovery and business intelligence. Expert Systems, 2020, 37, e12628.	4.5	3
110	Multi-Label Classification. , 2014, , 1581-1584.		3
111	Introduction to the special issue on Big Data, IoT Streams and Heterogeneous Source Mining. International Journal of Data Science and Analytics, 2019, 8, 221-222.	4.1	2
112	Continuous Analytics of Web Streams. , 2019, , .		2
113	S2CE. , 2021, , .		2
114	Incremental k-Nearest Neighbors Using Reservoir Sampling for Data Streams. Lecture Notes in Computer Science, 2021, , 122-137.	1.3	2
115	Resource-Aware Edge-Based Stream Analytics. IEEE Internet Computing, 2022, 26, 79-88.	3.3	2
116	Data Stream Classification Using Random Feature Functions and Novel Method Combinations. , 2015, , .		1
117	Real-Time Machine Learning Competition on Data Streams at the IEEE Big Data 2019. , 2019, , .		1
118	Analyzing and Repairing Concept Drift Adaptation in Data Stream Classification. , 2021, , .		1
119	Challenges of Stream Learning for Predictive Maintenance in the Railway Sector. Communications in Computer and Information Science, 2020, , 14-29.	0.5	1
120	Exact and Approximate Algorithms for Computing Betweenness Centrality in Directed Graphs. Fundamenta Informaticae, 2021, 182, 219-242.	0.4	1
121	TA4L: Efficient temporal abstraction of multivariate time series. Knowledge-Based Systems, 2022, 244, 108554.	7.1	1
122	Kalman Filtering for Learning with Evolving Data Streams. , 2021, , .		1
123	VEPRECO: Vertical databases with pre-pruning strategies and common candidate selection policies to fasten sequential pattern mining. Expert Systems With Applications, 2022, 204, 117517.	7.6	1
124	Preface to the Handling Concept Drift and Reoccurring Contexts in Adaptive Information Systems Workshop. , 2011, , .		0
125	Message from the Industrial Track Co-Chairs. , 2016, , .		0
126	Deferral classification of evolving temporal dependent data streams. , 2016, , .		0

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127	Ubiquitous Artificial Intelligence and Dynamic Data Streams. , 2018, , .		0
128	Discriminative Streaming Network Embedding. Knowledge-Based Systems, 2020, 190, 105138.	7.1	0
129	Online Evaluation of Email Streaming Classifiers Using GNUsmail. Lecture Notes in Computer Science, 2011, , 90-100.	1.3	0
130	Analyzing Big Data Streams with Apache SAMOA. Lecture Notes in Computer Science, 2019, , 44-67.	1.3	0
131	Network of Experts: Learning from Evolving Data Streams Through Network-Based Ensembles. Lecture Notes in Computer Science, 2019, , 704-716.	1.3	0
132	SCALAR - A Platform for Real-time Machine Learning Competitions on Data Streams. Journal of Open Source Software, 2020, 5, 2676.	4.6	0
133	Fast Incremental Naïve Bayes with Kalman Filtering. , 2020, , .		0