

Albert Bifet

List of Publications by Year in descending order

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133
papers

8,254
citations

201575

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138
all docs

138
docs citations

138
times ranked

5026
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Semi-supervised Learning for Delayed Partially Labelled Data Streams. ACM Computing Surveys, 2023, 55, 1-42.	16.1	8
2	STUDD: a student-teacher method for unsupervised concept drift detection. Machine Learning, 2023, 112, 4351-4378.	3.4	6
3	Analyzing and repairing concept drift adaptation in data stream classification. Machine Learning, 2022, 111, 3489-3523.	3.4	9
4	An eager splitting strategy for online decision trees in ensembles. Data Mining and Knowledge Discovery, 2022, 36, 566-619.	2.4	4
5	Resource-Aware Edge-Based Stream Analytics. IEEE Internet Computing, 2022, 26, 79-88.	3.2	2
6	TA4L: Efficient temporal abstraction of multivariate time series. Knowledge-Based Systems, 2022, 244, 108554.	4.0	1
7	Evolution-Based Online Automated Machine Learning. Lecture Notes in Computer Science, 2022, , 472-484.	1.0	4
8	VEPRECO: Vertical databases with pre-pruning strategies and common candidate selection policies to fasten sequential pattern mining. Expert Systems With Applications, 2022, 204, 117517.	4.4	1
9	vertTIRP: Robust and efficient vertical frequent time interval-related pattern mining. Expert Systems With Applications, 2021, 168, 114276.	4.4	10
10	Binding data mining and expert knowledge for one-day-ahead prediction of hourly global solar radiation. Expert Systems With Applications, 2021, 167, 114147.	4.4	13
11	Energy modeling of Hoeffding tree ensembles. Intelligent Data Analysis, 2021, 25, 81-104.	0.4	4
12	FARF: A Fair and Adaptive Random Forests Classifier. Lecture Notes in Computer Science, 2021, , 245-256.	1.0	11
13	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.	2.4	6
14	Data stream analysis: Foundations, major tasks and tools. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2021, 11, e1405.	4.6	36
15	Fingerprinting Concepts in Data Streams with Supervised and Unsupervised Meta-Information. , 2021, , .		5
16	S2CE. , 2021, , .		2
17	Learning from evolving data streams through ensembles of random patches. Knowledge and Information Systems, 2021, 63, 1597-1625.	2.1	6
18	CURIE: a cellular automaton for concept drift detection. Data Mining and Knowledge Discovery, 2021, 35, 2655-2678.	2.4	4

#	ARTICLE	IF	CITATIONS
19	Improving the performance of bagging ensembles for data streams through mini-batching. Information Sciences, 2021, 580, 260-282.	4.0	6
20	Incremental k-Nearest Neighbors Using Reservoir Sampling for Data Streams. Lecture Notes in Computer Science, 2021, , 122-137.	1.0	2
21	Analyzing and Repairing Concept Drift Adaptation in Data Stream Classification. , 2021, , .		1
22	Exact and Approximate Algorithms for Computing Betweenness Centrality in Directed Graphs. Fundamenta Informaticae, 2021, 182, 219-242.	0.3	1
23	Kalman Filtering for Learning with Evolving Data Streams. , 2021, , .		1
24	Spiking Neural Networks and online learning: An overview and perspectives. Neural Networks, 2020, 121, 88-100.	3.3	136
25	Discriminative Streaming Network Embedding. Knowledge-Based Systems, 2020, 190, 105138.	4.0	0
26	Exploiting the stimuli encoding scheme of evolving Spiking Neural Networks for stream learning. Neural Networks, 2020, 123, 118-133.	3.3	5
27	Delayed labelling evaluation for data streams. Data Mining and Knowledge Discovery, 2020, 34, 1237-1266.	2.4	17
28	Adaptive XGBoost for Evolving Data Streams. , 2020, , .		24
29	Performance measures for evolving predictions under delayed labelling classification. , 2020, , .		4
30	Fifth special issue on knowledge discovery and business intelligence. Expert Systems, 2020, 37, e12628.	2.9	3
31	Sampling informative patterns from large single networks. Future Generation Computer Systems, 2020, 106, 653-658.	4.9	13
32	Efficient Batch-Incremental Classification Using UMAP for Evolving Data Streams. Lecture Notes in Computer Science, 2020, , 40-53.	1.0	5
33	Incremental Rebalancing Learning on Evolving Data Streams. , 2020, , .		8
34	Survey on Feature Transformation Techniques for Data Streams. , 2020, , .		10
35	Unsupervised Concept Drift Detection Using a Studentâ€“Teacher Approach. Lecture Notes in Computer Science, 2020, , 190-204.	1.0	7
36	SCALAR - A Platform for Real-time Machine Learning Competitions on Data Streams. Journal of Open Source Software, 2020, 5, 2676.	2.0	0

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37	Challenges of Stream Learning for Predictive Maintenance in the Railway Sector. Communications in Computer and Information Science, 2020, , 14-29.	0.4	1
38	FEAT: A Fairness-Enhancing and Concept-Adapting Decision Tree Classifier. Lecture Notes in Computer Science, 2020, , 175-189.	1.0	6
39	Fast Incremental Naïve Bayes with Kalman Filtering. , 2020, , .		0
40	Recurring concept meta-learning for evolving data streams. Expert Systems With Applications, 2019, 138, 112832.	4.4	28
41	Measuring the Shattering coefficient of Decision Tree models. Expert Systems With Applications, 2019, 137, 443-452.	4.4	6
42	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.	2.4	2
43	Continuous Analytics of Web Streams. , 2019, , .		2
44	Efficient frequent subgraph mining on large streaming graphs. Intelligent Data Analysis, 2019, 23, 103-132.	0.4	9
45	Boosting decision stumps for dynamic feature selection on data streams. Information Systems, 2019, 83, 13-29.	2.4	24
46	Arbitrated Dynamic Ensemble with Abstaining for Time-Series Forecasting on Data Streams. , 2019, , .		3
47	Feature Scoring using Tree-Based Ensembles for Evolving Data Streams. , 2019, , .		8
48	Semi-supervised Learning over Streaming Data using MOA. , 2019, , .		11
49	Real-Time Machine Learning Competition on Data Streams at the IEEE Big Data 2019. , 2019, , .		1
50	Streaming Random Patches for Evolving Data Stream Classification. , 2019, , .		45
51	Machine learning for streaming data. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2019, 21, 6-22.	3.2	137
52	Adaptive Random Forests with Resampling for Imbalanced data Streams. , 2019, , .		8
53	On learning guarantees to unsupervised concept drift detection on data streams. Expert Systems With Applications, 2019, 117, 90-102.	4.4	38
54	Merit-guided dynamic feature selection filter for data streams. Expert Systems With Applications, 2019, 116, 227-242.	4.4	28

#	ARTICLE	IF	CITATIONS
55	Analyzing Big Data Streams with Apache SAMOA. Lecture Notes in Computer Science, 2019, , 44-67.	1.0	0
56	Network of Experts: Learning from Evolving Data Streams Through Network-Based Ensembles. Lecture Notes in Computer Science, 2019, , 704-716.	1.0	0
57	A Survey on Ensemble Learning for Data Stream Classification. ACM Computing Surveys, 2018, 50, 1-36.	16.1	342
58	EXAD: A System for Explainable Anomaly Detection on Big Data Traces. , 2018, , .		12
59	An In-depth Comparison of Group Betweenness Centrality Estimation Algorithms. , 2018, , .		4
60	Learning Fast and Slow: A Unified Batch/Stream Framework. , 2018, , .		4
61	A Sketch-Based Naive Bayes Algorithms for Evolving Data Streams. , 2018, , .		13
62	DyBED: An Efficient Algorithm for Updating Betweenness Centrality in Directed Dynamic Graphs. , 2018, , .		7
63	Bitcoin Volatility Forecasting with a Glimpse into Buy and Sell Orders. , 2018, , .		37
64	Telemetry-based stream-learning of BGP anomalies. , 2018, , .		9
65	Predicting attributes and friends of mobile users from AP-Trajectories. Information Sciences, 2018, 463-464, 110-128.	4.0	5
66	Ubiquitous Artificial Intelligence and Dynamic Data Streams. , 2018, , .		0
67	Unsupervised real-time detection of BGP anomalies leveraging high-rate and fine-grained telemetry data. , 2018, , .		5
68	Discriminative Distance-Based Network Indices with Application to Link Prediction. Computer Journal, 2018, 61, 998-1014.	1.5	4
69	Efficient Exact and Approximate Algorithms for Computing Betweenness Centrality in Directed Graphs. Lecture Notes in Computer Science, 2018, , 752-764.	1.0	9
70	Adaptive random forests for evolving data stream classification. Machine Learning, 2017, 106, 1469-1495.	3.4	415
71	Droplet Ensemble Learning on Drifting Data Streams. Lecture Notes in Computer Science, 2017, , 210-222.	1.0	3
72	Extremely Fast Decision Tree Mining for Evolving Data Streams. , 2017, , .		50

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73	Data stream classification using random feature functions and novel method combinations. Journal of Systems and Software, 2017, 127, 195-204.	3.3	11
74	Predicting over-indebtedness on batch and streaming data. , 2017, , .		3
75	Low-latency multi-threaded ensemble learning for dynamic big data streams. , 2017, , .		7
76	Inferring Demographics and Social Networks of Mobile Device Users on Campus From AP-Trajectories. , 2017, , .		13
77	Classifier Concept Drift Detection and the Illusion of Progress. Lecture Notes in Computer Science, 2017, , 715-725.	1.0	20
78	VHT: Vertical hoeffding tree. , 2016, , .		28
79	On Dynamic Feature Weighting for Feature Drifting Data Streams. Lecture Notes in Computer Science, 2016, , 129-144.	1.0	21
80	IoT Big Data Stream Mining. , 2016, , .		53
81	Message from the Industrial Track Co-Chairs. , 2016, , .		0
82	Deferral classification of evolving temporal dependent data streams. , 2016, , .		0
83	Adaptive Model Rules From High-Speed Data Streams. ACM Transactions on Knowledge Discovery From Data, 2016, 10, 1-22.	2.5	34
84	A streaming flow-based technique for traffic classification applied to 12 + 1 years of Internet traffic. Telecommunication Systems, 2016, 63, 191-204.	1.6	22
85	StreamDM: Advanced Data Mining in Spark Streaming. , 2015, , .		32
86	Data Stream Classification Using Random Feature Functions and Novel Method Combinations. , 2015, , .		1
87	Use of ensembles of Fourier spectra in capturing recurrent concepts in data streams. , 2015, , .		6
88	An efficient closed frequent itemset miner for the MOA stream mining system. AI Communications, 2015, 28, 143-158.	0.8	11
89	Efficient Online Evaluation of Big Data Stream Classifiers. , 2015, , .		99
90	Deep learning in partially-labeled data streams. , 2015, , .		21

#	ARTICLE	IF	CITATIONS
91	Drift Detection Using Stream Volatility. Lecture Notes in Computer Science, 2015, , 417-432.	1.0	15
92	Evaluation methods and decision theory for classification of streaming data with temporal dependence. Machine Learning, 2015, 98, 455-482.	3.4	92
93	Big Data Stream Learning with SAMOA. , 2014, , .		31
94	Multi-label Classification with Meta-Labels. , 2014, , .		24
95	Distributed Adaptive Model Rules for mining big data streams. , 2014, , .		13
96	Change detection in categorical evolving data streams. , 2014, , .		6
97	Incremental Ensemble Classifier Addressing Non-stationary Fast Data Streams. , 2014, , .		8
98	A survey on concept drift adaptation. ACM Computing Surveys, 2014, 46, 1-37.	16.1	2,221
99	Active Learning With Drifting Streaming Data. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 27-39.	7.2	258
100	Data Stream Mining. , 2014, , 664-666.		4
101	Multi-Label Classification. , 2014, , 1581-1584.		3
102	Mining big data. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2013, 14, 1-5.	3.2	553
103	Pitfalls in Benchmarking Data Stream Classification and How to Avoid Them. Lecture Notes in Computer Science, 2013, , 465-479.	1.0	46
104	Efficient data stream classification via probabilistic adaptive windows. , 2013, , .		58
105	Clustering Based Active Learning for Evolving Data Streams. Lecture Notes in Computer Science, 2013, , 79-93.	1.0	31
106	CD-MOA: Change Detection Framework for Massive Online Analysis. Lecture Notes in Computer Science, 2013, , 92-103.	1.0	20
107	Ensembles of Restricted Hoeffding Trees. ACM Transactions on Intelligent Systems and Technology, 2012, 3, 1-20.	2.9	23
108	Batch-Incremental versus Instance-Incremental Learning in Dynamic and Evolving Data. Lecture Notes in Computer Science, 2012, , 313-323.	1.0	58

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109	Stream Data Mining Using the MOA Framework. Lecture Notes in Computer Science, 2012, , 309-313.	1.0	9
110	Next challenges for adaptive learning systems. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2012, 14, 48-55.	3.2	67
111	Scalable and efficient multi-label classification for evolving data streams. Machine Learning, 2012, 88, 243-272.	3.4	118
112	MOA-TweetReader: Real-Time Analysis in Twitter Streaming Data. Lecture Notes in Computer Science, 2011, , 46-60.	1.0	19
113	Preface to the Handling Concept Drift and Reoccurring Contexts in Adaptive Information Systems Workshop. , 2011, , .		0
114	Mining frequent closed graphs on evolving data streams. , 2011, , .		48
115	An effective evaluation measure for clustering on evolving data streams. , 2011, , .		68
116	Mining frequent closed trees in evolving data streams. Intelligent Data Analysis, 2011, 15, 29-48.	0.4	12
117	Active Learning with Evolving Streaming Data. Lecture Notes in Computer Science, 2011, , 597-612.	1.0	33
118	Online Evaluation of Email Streaming Classifiers Using GNUsmail. Lecture Notes in Computer Science, 2011, , 90-100.	1.0	0
119	Mining frequent closed rooted trees. Machine Learning, 2010, 78, 1-33.	3.4	18
120	Fast Perceptron Decision Tree Learning from Evolving Data Streams. Lecture Notes in Computer Science, 2010, , 299-310.	1.0	61
121	Clustering Performance on Evolving Data Streams: Assessing Algorithms and Evaluation Measures within MOA. , 2010, , .		16
122	Leveraging Bagging for Evolving Data Streams. Lecture Notes in Computer Science, 2010, , 135-150.	1.0	183
123	Sentiment Knowledge Discovery in Twitter Streaming Data. Lecture Notes in Computer Science, 2010, , 1-15.	1.0	288
124	New ensemble methods for evolving data streams. , 2009, , .		359
125	Adaptive Learning from Evolving Data Streams. Lecture Notes in Computer Science, 2009, , 249-260.	1.0	251
126	Adaptive XML Tree Classification on Evolving Data Streams. Lecture Notes in Computer Science, 2009, , 147-162.	1.0	12

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127	Improving Adaptive Bagging Methods for Evolving Data Streams. Lecture Notes in Computer Science, 2009, , 23-37.	1.0	38
128	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.	3.2	46
129	Mining adaptively frequent closed unlabeled rooted trees in data streams. , 2008, , .		27
130	Learning from Time-Changing Data with Adaptive Windowing. , 2007, , .		863
131	Subtree Testing and Closed Tree Mining Through Natural Representations. , 2007, , .		4
132	Mining Frequent Closed Unordered Trees Through Natural Representations. Lecture Notes in Computer Science, 2007, , 347-359.	1.0	5
133	Kalman Filters and Adaptive Windows for Learning in Data Streams. Lecture Notes in Computer Science, 2006, , 29-40.	1.0	34