

Francois Petitjean

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,859
citations

394421

19
h-index

315739

38
g-index

63
all docs

63
docs citations

63
times ranked

3039
citing authors

#	ARTICLE	IF	CITATIONS
1	A global averaging method for dynamic time warping, with applications to clustering. Pattern Recognition, 2011, 44, 678-693.	8.1	721
2	InceptionTime: Finding AlexNet for time series classification. Data Mining and Knowledge Discovery, 2020, 34, 1936-1962.	3.7	542
3	ROCKET: exceptionally fast and accurate time series classification using random convolutional kernels. Data Mining and Knowledge Discovery, 2020, 34, 1454-1495.	3.7	359
4	Temporal Convolutional Neural Network for the Classification of Satellite Image Time Series. Remote Sensing, 2019, 11, 523.	4.0	306
5	Characterizing concept drift. Data Mining and Knowledge Discovery, 2016, 30, 964-994.	3.7	285
6	Satellite Image Time Series Analysis Under Time Warping. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3081-3095.	6.3	247
7	Dynamic Time Warping Averaging of Time Series Allows Faster and More Accurate Classification. , 2014, , .		137
8	Spatio-temporal reasoning for the classification of satellite image time series. Pattern Recognition Letters, 2012, 33, 1805-1815.	4.2	127
9	TS-CHIEF: a scalable and accurate forest algorithm for time series classification. Data Mining and Knowledge Discovery, 2020, 34, 742-775.	3.7	112
10	Proximity Forest: an effective and scalable distance-based classifier for time series. Data Mining and Knowledge Discovery, 2019, 33, 607-635.	3.7	100
11	Faster and more accurate classification of time series by exploiting a novel dynamic time warping averaging algorithm. Knowledge and Information Systems, 2016, 47, 1-26.	3.2	92
12	Generating Synthetic Time Series to Augment Sparse Datasets. , 2017, , .		84
13	Analyzing concept drift and shift from sample data. Data Mining and Knowledge Discovery, 2018, 32, 1179-1199.	3.7	65
14	Summarizing a set of time series by averaging: From Steiner sequence to compact multiple alignment. Theoretical Computer Science, 2012, 414, 76-91.	0.9	60
15	Optimizing dynamic time warping's window width for time series data mining applications. Data Mining and Knowledge Discovery, 2018, 32, 1074-1120.	3.7	56
16	Surgical motion analysis using discriminative interpretable patterns. Artificial Intelligence in Medicine, 2018, 91, 3-11.	6.5	44
17	Efficient Satellite Image Time Series Analysis Under Time Warping. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1143-1147.	3.1	40
18	Indexing and classifying gigabytes of time series under time warping. , 2017, , 282-290.		33

#	ARTICLE	IF	CITATIONS
19	Time series extrinsic regression. <i>Data Mining and Knowledge Discovery</i> , 2021, 35, 1032-1060.	3.7	32
20	Skopus: Mining top-k sequential patterns under leverage. <i>Data Mining and Knowledge Discovery</i> , 2016, 30, 1086-1111.	3.7	30
21	Live fuel moisture content estimation from MODIS: A deep learning approach. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2021, 179, 81-91.	11.1	25
22	Automatic matching of surgeries to predict surgeons'™ next actions. <i>Artificial Intelligence in Medicine</i> , 2017, 81, 3-11.	6.5	24
23	FastEE: Fast Ensembles of Elastic Distances for time series classification. <i>Data Mining and Knowledge Discovery</i> , 2020, 34, 231-272.	3.7	21
24	Efficient search of the best warping window for Dynamic Time Warping. , 2018, , 225-233.		20
25	Deep Learning for an Improved Prediction of Rainfall Retrievals From Commercial Microwave Links. <i>Water Resources Research</i> , 2020, 56, e2019WR026255.	4.2	20
26	Efficient parameter learning of Bayesian network classifiers. <i>Machine Learning</i> , 2017, 106, 1289-1329.	5.4	19
27	Accurate parameter estimation for Bayesian network classifiers using hierarchical Dirichlet processes. <i>Machine Learning</i> , 2018, 107, 1303-1331.	5.4	16
28	Analysing Satellite Image Time Series by Means of Pattern Mining. <i>Lecture Notes in Computer Science</i> , 2010, , 45-52.	1.3	15
29	DISCOVERING SIGNIFICANT EVOLUTION PATTERNS FROM SATELLITE IMAGE TIME SERIES. <i>International Journal of Neural Systems</i> , 2011, 21, 475-489.	5.2	14
30	Surgical skills: Can learning curves be computed from recordings of surgical activities?. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 629-636.	2.8	14
31	Elastic bands across the path: A new framework and method to lower bound DTW. , 2019, , 522-530.		14
32	A Multiple Test Correction for Streams and Cascades of Statistical Hypothesis Tests. , 2016, , .		13
33	Judicious setting of Dynamic Time Warping's window width allows more accurate classification of time series. , 2017, , .		13
34	Scaling Log-Linear Analysis to High-Dimensional Data. , 2013, , .		12
35	Assessing the quality of temporal high-resolution classifications with low-resolution satellite image time series. <i>International Journal of Remote Sensing</i> , 2014, 35, 2693-2712.	2.9	12
36	Discovering Discriminative and Interpretable Patterns for Surgical Motion Analysis. <i>Lecture Notes in Computer Science</i> , 2017, , 136-145.	1.3	12

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37	A Bayesian-inspired, deep learning-based, semi-supervised domain adaptation technique for land cover mapping. Machine Learning, 0, , 1.	5.4	12
38	Accelerated higher-order logistic regression. Machine Learning, 2016, 104, 151-194.	5.4	10
39	Bayesian network classifiers using ensembles and smoothing. Knowledge and Information Systems, 2020, 62, 3457-3480.	3.2	10
40	Non-linear temporal scaling of surgical processes. Artificial Intelligence in Medicine, 2014, 62, 143-152.	6.5	9
41	Finding discriminative and interpretable patterns in sequences of surgical activities. Artificial Intelligence in Medicine, 2017, 82, 11-19.	6.5	9
42	A context-based approach for the classification of Satellite Image Time Series. , 2011, , .		8
43	Clustering of satellite image time series under Time Warping. , 2011, , .		7
44	A Statistically Efficient and Scalable Method for Log-Linear Analysis of High-Dimensional Data. , 2014, , .		7
45	Scaling log-linear analysis to datasets with thousands of variables. , 2015, , .		6
46	Optimal Sub-Sequence Matching for the Automatic Prediction of Surgical Tasks. Lecture Notes in Computer Science, 2015, , 123-132.	1.3	6
47	Using Sentinel-2 Image Time Series to map the State of Victoria, Australia. , 2019, , .		5
48	Unsupervised Domain Adaptation Techniques for Classification of Satellite Image Time Series. , 2020, , .		5
49	Preconditioning an Artificial Neural Network Using Naive Bayes. Lecture Notes in Computer Science, 2016, , 341-353.	1.3	4
50	Temporal domain adaptation under time warping. , 2011, , .		3
51	Automatic Alignment of Surgical Videos Using Kinematic Data. Lecture Notes in Computer Science, 2019, , 104-113.	1.3	3
52	Exploring Data Quantity Requirements for Domain Adaptation in the Classification of Satellite Image Time Series. , 2019, , .		3
53	Towards efficient satellite image time series analysis: Combination of dynamic time warping and quasi-flat zones. , 2012, , .		2
54	Introducing prior knowledge in temporal distances for Satellite Image Time Series analysis. , 2012, , .		2

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55	Efficient and Effective Accelerated Hierarchical Higher-Order Logistic Regression for Large Data Quantities. , 2018, , 459-467.		2
56	Experiments with learning graphical models on text. Behaviormetrika, 2018, 45, 363-387.	1.3	2
57	Seasonal Averaged One-Dependence Estimators: A Novel Algorithm to Address Seasonal Concept Drift in High-Dimensional Stream Classification. , 2020, , .		2
58	No Cloud on the Horizon: Probabilistic Gap Filling in Satellite Image Series. , 2020, , .		2
59	Monitoring urban sprawl from Satellite Image Time Series. , 2012, , .		1
60	Use of symbolic dynamic time warping in hierarchical clustering of urban fabric evolutions extracted from spatiotemporal topographic databases. AI Communications, 2016, 29, 733-746.	1.2	1
61	Scalable Learning of Graphical Models. , 2016, , .		1
62	Hierarchical Gradient Smoothing for Probability Estimation Trees. Lecture Notes in Computer Science, 2020, , 222-234.	1.3	1
63	Detecting land-cover modifications from multi-resolution satellite image time series. , 2013, , .		0