Rafal Angryk

List of Publications by Year
in descending order

53	546	840776	794594
papers	citations	11	19
		h-index	g-index

57	57	57	408
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Computer Vision for the Solar Dynamics Observatory (SDO). Solar Physics, 2012, 275, 79-113.	2.5	108
2	Heuristic algorithm for interpretation of multi-valued attributes in similarity-based fuzzy relational databases. International Journal of Approximate Reasoning, 2010, 51, 895-911.	3.3	35
3	How to Train Your Flare Prediction Model: Revisiting Robust Sampling of Rare Events. Astrophysical Journal, Supplement Series, 2021, 254, 23.	7.7	33
4	Spatiotemporal indexing techniques for efficiently mining spatiotemporal co-occurrence patterns. , 2014, , .		18
5	A Comparative Evaluation of Automated Solar Filament Detection. Solar Physics, 2014, 289, 2503-2524.	2.5	18
6	Distance and Density Clustering for Time Series Data. , 2017, , .		18
7	Prediction of Solar Eruptions Using Filament Metadata. Astrophysical Journal, Supplement Series, 2018, 236, 15.	7.7	17
8	Challenges with Extreme Class-Imbalance and Temporal Coherence: A Study on Solar Flare Data. , 2019, , .		17
9	Steps Toward a Large-Scale Solar Image Data Analysis to Differentiate Solar Phenomena. Solar Physics, 2013, 288, 435-462.	2.5	16
10	On Dimensionality Reduction for Indexing and Retrieval of Large-Scale Solar Image Data. Solar Physics, 2013, 283, 113-141.	2.5	16
11	On the prediction of >100 MeV solar energetic particle events using GOES satellite data. , 2017, , .		16
12	Coronal Mass Ejection Data Clustering and Visualization of Decision Trees. Astrophysical Journal, Supplement Series, 2018, 236, 14.	7.7	16
13	Graph-based ontology-guided data mining for D-matrix model maturation. , 2011, , .		15
14	On visualization techniques for solar data mining. Astronomy and Computing, 2015, 10, 32-42.	1.7	14
15	Tracking Solar Events through Iterative Refinement. Astronomy and Computing, 2015, 13, 124-135.	1.7	13
16	Mining spatiotemporal co-occurrence patterns in non-relational databases. GeoInformatica, 2016, 20, 801-828.	2.7	13
17	Spatio-temporal interpolation methods for solar events metadata. , 2016, , .		12
18	Time-efficient significance measure for discovering spatiotemporal co-occurrences from data with unbalanced characteristics. , 2015, , .		11

#	Article	IF	Citations
19	Spatiotemporal Frequent Pattern Mining on Solar Data: Current Algorithms and Future Directions. , 2015, , .		11
20	Spatiotemporal Interpolation Methods for Solar Event Trajectories. Astrophysical Journal, Supplement Series, 2018, 236, 23.	7.7	11
21	Iterative refinement of multiple targets tracking of solar events. , 2014, , .		10
22	Mining spatiotemporal co-occurrence patterns in solar datasets. Astronomy and Computing, 2015, 13, 136-144.	1.7	9
23	Filling the Gaps in Solar Big Data: Interpolation of Solar Filament Event Instances. , 2016, , .		9
24	A large-scale dataset of solar event reports from automated feature recognition modules. Journal of Space Weather and Space Climate, 2016, 6, A22.	3.3	8
25	Minimal data sets vs. synchronized data copies in a schema and data versioning system. , 2011, , .		7
26	Data Handling and Assimilation for Solar Event Prediction. Proceedings of the International Astronomical Union, 2017, 13, 344-347.	0.0	7
27	Scalable kNN Search Approximation for Time Series Data. , 2018, , .		7
28	Solar image parameter data from the SDO: Long-term curation and data mining. Astronomy and Computing, 2015, 13, 86-98.	1.7	6
29	Convolutional Neural Networks for Time Series Classification. Lecture Notes in Computer Science, 2017, , 635-642.	1.3	6
30	Ontology-guided knowledge discovery of event sequences in maintenance data. , 2011, , .		5
31	Discovering spatiotemporal event sequences. , 2016, , .		5
32	Identification of Discriminative Subnetwork from fMRI-Based Complete Functional Connectivity Networks. International Journal of Semantic Computing, 2019, 13, 25-44.	0.5	5
33	Tensor Decomposition for Neurodevelopmental Disorder Prediction. Lecture Notes in Computer Science, 2018, , 339-348.	1.3	4
34	An Application of Spatio-temporal Co-occurrence Analyses for Integrating Solar Active Region Data from Multiple Reporting Modules. , 2019, , .		4
35	An example based image retrieval system for the TRACE repository. , 2008, , .		3
36	A data-driven analysis of interplanetary coronal mass ejecta and magnetic flux ropes. , 2016, , .		3

#	Article	IF	Citations
37	Beyond accuracy â€“ A SMART approach to site-based spatio-temporal data quality assessment. Intelligent Data Analysis, 2018, 22, 21-43.	0.9	3
38	Biomarker Detection from fMRI-Based Complete Functional Connectivity Networks. , 2018, , .		3
39	Interpretable Feature Learning of Graphs using Tensor Decomposition. , 2019, , .		3
40	Abstracting for Dimensionality Reduction in Text Classification. International Journal of Intelligent Systems, 2013, 28, 115-138.	5.7	2
41	An IEEE standards-based visualization tool for knowledge discovery in maintenance event sequences. IEEE Aerospace and Electronic Systems Magazine, 2013, 28, 30-39.	1.3	1
42	Predictive Spatio-Temporal Query Processor on Resilient Distributed Datasets. , 2016, , .		1
43	Color-Based Large-Scale Image Retrieval with Limited Hardware Resources. Lecture Notes in Computer Science, 2016, , 689-699.	1.3	1
44	Multi-wavelength solar event detection using faster R-CNN. , 2017, , .		1
45	Heuristics Significance of Neuro-Ensemble-based Time Series Classification. , 2018, , .		1
46	Neuro-Ensemble for Time Series Data Classification. , 2018, , .		1
47	Tensor Decomposition-based Node Embedding. , 2019, , .		1
48	Storing Long-Lived Concurrent Schema and Data Versions in Relational Databases. Advances in Intelligent Systems and Computing, 2015, , 97-108.	0.6	0
49	Neuro-Ensemble. , 2018, , .		0
50	Multivariate Time Series Nearest Neighbor Search: A Case Study on Solar Flare Prediction. , 2018, , .		0
51	Accurate, Timely, Reliable: A High Standard and Elusive Goal for Traveler Information Data Quality. Lecture Notes in Networks and Systems, 2020, , 580-598.	0.7	0
52	Tiered Clustering for Time Series Data. Lecture Notes in Networks and Systems, 2022, , 3-14.	0.7	0
53	Generating Concept Hierarchies from User Queries. Studies in Computational Intelligence, 2008, , 423-441.	0.9	0