

Pasi FrÃ¶nti

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

2,992
citations

218677
26
h-index

189892
50
g-index

109
all docs

109
docs citations

109
times ranked

2140
citing authors

#	ARTICLE	IF	CITATIONS
1	K-means properties on six clustering benchmark datasets. Applied Intelligence, 2018, 48, 4743-4759.	5.3	308
2	How much can k-means be improved by using better initialization and repeats?. Pattern Recognition, 2019, 93, 95-112.	8.1	265
3	Iterative shrinking method for clustering problems. Pattern Recognition, 2006, 39, 761-775.	8.1	262
4	Fast Agglomerative Clustering Using a k-Nearest Neighbor Graph. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2006, 28, 1875-1881.	13.9	241
5	Set Matching Measures for External Cluster Validity. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2173-2186.	5.7	134
6	WB-index: A sum-of-squares based index for cluster validity. Data and Knowledge Engineering, 2014, 92, 77-89.	3.4	107
7	Minimum spanning tree based split-and-merge: A hierarchical clustering method. Information Sciences, 2011, 181, 3397-3410.	6.9	90
8	Centroid index: Cluster level similarity measure. Pattern Recognition, 2014, 47, 3034-3045.	8.1	87
9	A fast minimum spanning tree algorithm based on K-means. Information Sciences, 2015, 295, 1-17.	6.9	86
10	Balanced K-Means for Clustering. Lecture Notes in Computer Science, 2014, , 32-41.	1.3	85
11	Mean-shift outlier detection and filtering. Pattern Recognition, 2021, 115, 107874.	8.1	62
12	A Fast $O(N)$ Multiresolution Polygonal Approximation Algorithm for GPS Trajectory Simplification. IEEE Transactions on Image Processing, 2012, 21, 2770-2785.	9.8	61
13	Genetic algorithm with deterministic crossover for vector quantization. Pattern Recognition Letters, 2000, 21, 61-68.	4.2	60
14	A review of motion planning algorithms for intelligent robots. Journal of Intelligent Manufacturing, 2022, 33, 387-424.	7.3	59
15	Outlier detection. , 2019, , .		55
16	Fast and general density peaks clustering. Pattern Recognition Letters, 2019, 128, 551-558.	4.2	51
17	Time-series clustering by approximate prototypes. , 2008, , .		48
18	Comparison of clustering methods: A case study of text-independent speaker modeling. Pattern Recognition Letters, 2011, 32, 1604-1617.	4.2	46

#	ARTICLE	IF	CITATIONS
19	Self-Adaptive Genetic Algorithm for Clustering. Journal of Heuristics, 2003, 9, 113-129.	1.4	45
20	Efficiency of random swap clustering. Journal of Big Data, 2018, 5, .	11.0	42
21	A Joint Approach for Single-Channel Speaker Identification and Speech Separation. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 2586-2601.	3.2	37
22	K-meansŽ: Clustering by gradual data transformation. Pattern Recognition, 2014, 47, 3376-3386.	8.1	36
23	Framework for syntactic string similarity measures. Expert Systems With Applications, 2019, 129, 169-185.	7.6	36
24	Content-based matching of line-drawing images using the Hough transform. International Journal on Document Analysis and Recognition, 2000, 3, 117-124.	3.4	35
25	Cascaded RLSŒLMS Prediction in MPEG-4 Lossless Audio Coding. IEEE Transactions on Audio Speech and Language Processing, 2008, 16, 554-562.	3.2	35
26	Tabu search algorithm for codebook generation in vector quantization. Pattern Recognition, 1998, 31, 1139-1148.	8.1	34
27	Random swap EM algorithm for Gaussian mixture models. Pattern Recognition Letters, 2012, 33, 2120-2126.	4.2	29
28	A grid-growing clustering algorithm for geo-spatial data. Pattern Recognition Letters, 2015, 53, 77-84.	4.2	27
29	Grid-Based Method for GPS Route Analysis for Retrieval. ACM Transactions on Spatial Algorithms and Systems, 2017, 3, 1-28.	1.4	27
30	CellNet. ACM Transactions on Spatial Algorithms and Systems, 2018, 4, 1-22.	1.4	25
31	Classification of Interbeat Interval Time-Series Using Attention Entropy. IEEE Transactions on Affective Computing, 2023, 14, 321-330.	8.3	24
32	Compression of GPS Trajectories. , 2012, , .		21
33	Adapting k-means for graph clustering. Knowledge and Information Systems, 2022, 64, 115-142.	3.2	19
34	Detecting Movement Type by Route Segmentation and Classification. , 2012, , .		18
35	Similarity measures for title matching. , 2016, , .		18
36	O-Mopsi. ACM Transactions on Multimedia Computing, Communications and Applications, 2017, 13, 1-25.	4.3	18

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37	Signal-to-Signal Ratio Independent Speaker Identification for Co-channel Speech Signals. , 2010, , .		17
38	XNN Graph. Lecture Notes in Computer Science, 2016, , 207-217.	1.3	16
39	Centroid Ratio for a Pairwise Random Swap Clustering Algorithm. IEEE Transactions on Knowledge and Data Engineering, 2014, 26, 1090-1101.	5.7	15
40	Recommendation of Points of Interest from User Generated Data Collection. , 2012, , .		14
41	Can the Number of Clusters Be Determined by External Indices?. IEEE Access, 2020, 8, 89239-89257.	4.2	14
42	Using linguistic features to automatically extract web page title. Expert Systems With Applications, 2017, 79, 296-312.	7.6	12
43	Three Rapid Methods for Averaging GPS Segments. Applied Sciences (Switzerland), 2019, 9, 4899.	2.5	12
44	Analysing the Dynamics of Interbeat Interval Time Series Using Grouped Horizontal Visibility Graph. IEEE Access, 2019, 7, 9926-9934.	4.2	12
45	Clustering by analytic functions. Information Sciences, 2012, 217, 31-38.	6.9	11
46	Planning Your Route: Where to Start?. Computational Brain & Behavior, 2018, 1, 252-265.	1.7	11
47	Which Local Search Operator Works Best for the Open-Loop TSP?. Applied Sciences (Switzerland), 2019, 9, 3985.	2.5	10
48	Probabilistic clustering by random swap algorithm. , 2008, , .		9
49	Clustering Diagnoses From 58 Million Patient Visits in Finland Between 2015 and 2018. JMIR Medical Informatics, 2022, 10, e35422.	2.6	9
50	Adaptive Context-Tree-Based Statistical Filtering for Raster Map Image Denoising. IEEE Transactions on Multimedia, 2011, 13, 1195-1207.	7.2	8
51	Random Projection for k-means Clustering. Lecture Notes in Computer Science, 2018, , 680-689.	1.3	8
52	Solving the Large-Scale TSP Problem in 1Âh: Santa Claus Challenge 2020. Frontiers in Robotics and AI, 2021, 8, 689908.	3.2	8
53	Multi-site heterogeneous system fusions for the Albayzin 2010 Language Recognition Evaluation. , 2011, , .		7
54	Fast random pair divisive construction of kNN graph using generic distance measures. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
55	Averaging GPS segments competition 2019. Pattern Recognition, 2021, 112, 107730.	8.1	7
56	A Comparison of Categorical Attribute Data Clustering Methods. Lecture Notes in Computer Science, 2014, , 53-62.	1.3	7
57	Compressing multi-component digital maps using JBIG2. , 2002, , .		6
58	Random swap EM algorithm for finite mixture models in image segmentation. , 2009, , .		6
59	Noise reduced high dynamic range tone mapping using information content weights. , 2015, , .		6
60	Generalizing Centroid Index to Different Clustering Models. Lecture Notes in Computer Science, 2016, , 285-296.	1.3	6
61	Comparing maximum a posteriori vector quantization and Gaussian mixture models in speaker verification. , 2009, , .		5
62	RSEM: An Accelerated Algorithm on Repeated EM. , 2011, , .		5
63	Fast Approximate Minimum Spanning Tree Algorithm Based on K-Means. Lecture Notes in Computer Science, 2013, , 262-269.	1.3	5
64	Constructing a High-Dimensional k NN-Graph Using a Z-Order Curve. Journal of Experimental Algorithmics, 2018, 23, 1-21.	1.0	5
65	Context-aware similarity of GPS trajectories. Journal of Location Based Services, 2020, 14, 231-251.	1.9	5
66	Extracting Representative Image from Web Page. , 2015, , .		5
67	Content-based Title Extraction from Web Page. , 2016, , .		5
68	DOM-based keyword extraction from web pages. , 2019, , .		5
69	Forward-adaptive method for context-based compression of large binary images. Software - Practice and Experience, 1999, 29, 943-952.	3.6	4
70	Deterministic and randomized local search algorithms for clustering. , 2008, , .		4
71	Fast dynamic quantization algorithm for vector map compression. , 2010, , .		4
72	Extending external validity measures for determining the number of clusters. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
73	ClRank: A Method for Keyword Extraction from Web Pages Using Clustering and Distribution of Nouns. , 2015, , .		4
74	H-Rank: A keywords extraction method from web pages using POS tags. , 2019, , .		4
75	Joint frame and Gaussian selection for text independent speaker verification. , 2010, , .		3
76	Modelling implications & impacts of going green with EV in Singapore with multi-agent systems. , 2014, , .		3
77	GPS Trajectory Biometrics: From Where You Were to How You Move. Lecture Notes in Computer Science, 2016, , 450-460.	1.3	3
78	Functional Classification of Websites. , 2017, , .		3
79	Medoid-Shift for Noise Removal to Improve Clustering. Lecture Notes in Computer Science, 2018, , 604-614.	1.3	3
80	Activity event recommendation and attendance prediction. Journal of Location Based Services, 2019, 13, 293-319.	1.9	3
81	Predicting the difficulty of TSP instances using MST. , 2019, , .		3
82	Real-time destination prediction for mobile users. Advances in Cartography and GIScience of the ICA, 0, 2, 1-7.	0.0	3
83	Can Social Network Be Used for Location-aware Recommendation?. , 2015, , .		3
84	Matching Similarity for Keyword-Based Clustering. Lecture Notes in Computer Science, 2014, , 193-202.	1.3	3
85	Converting MST to TSP Path by Branch Elimination. Applied Sciences (Switzerland), 2021, 11, 177.	2.5	3
86	Comparison of eleven measures for estimating difficulty of open-loop TSP instances. , 2021, 1, 1-30.		3
87	Optimal clustering by merge-based branch-and-bound. , 2022, 2, 63-82.		3
88	Statistical filtering of raster map images. , 2010, , .		2
89	Framework for location-aware search engine. Journal of Location Based Services, 2017, 11, 50-74.	1.9	2
90	Dimensionally Distributed Density Estimation. Lecture Notes in Computer Science, 2018, , 343-353.	1.3	2

#	ARTICLE	IF	CITATIONS
91	Fast travel-distance estimation using overhead graph. Journal of Location Based Services, 2021, 15, 261-279.	1.9	2
92	Fast Mumford-Shah Two-Phase Image Segmentation Using Proximal Splitting Scheme. Journal of Applied Mathematics, 2021, 2021, 1-13.	0.9	2
93	Merge-Based Color Quantization and Context Tree Modeling for Compression of Color Quantized Images. , 2006, , .		1
94	Statistical Filtering of Raster Map Images Using a Context Tree Model. , 2007, , .		1
95	K-means: Clustering by Gradual Data Transformation. , 2011, , .		1
96	Using Open Street Map for Content Creation in Location-Based Games. , 2021, , .		1
97	Gesture Input for GPS Route Search. Lecture Notes in Computer Science, 2016, , 439-449.	1.3	1
98	Is Medoid Suitable for Averaging GPS Trajectories?. ISPRS International Journal of Geo-Information, 2022, 11, 133.	2.9	1
99	WebRank: Language-Independent Extraction of Keywords from Webpages. , 2021, , .		1
100	Context-based compression of binary images in parallel. Software - Practice and Experience, 2002, 32, 1223-1237.	3.6	0
101	Detecting and composing near-identical HDR images without exposure information. , 2010, , .		0
102	Optimized Entropy-constrained Vector Quantization of lossy Vector Map Compression. , 2010, , .		0
103	Adaptive filtering of raster map images using optimal context selection. , 2011, , .		0
104	2D denoising factor for high dynamic range imaging. , 2012, , .		0
105	Multi-Agent Approach Traffic Forecast for Planning Urban Road Infrastructure. , 2018, , .		0
106	Real-time Electric Vehicle Load Forecast to Meet Timely Energy Dispatch. , 2018, , .		0
107	Similarity of Mobile Users Based on Sparse Location History. Lecture Notes in Computer Science, 2018, , 593-603.	1.3	0
108	Security and Ethical Concerns of Affective Algorithmic Music Composition in Smart Spaces. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 193-203.	0.5	0