

Tomas Skopal

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

803
citations

516215

16
h-index

642321

23
g-index

95
all docs

95
docs citations

95
times ranked

410
citing authors

#	ARTICLE	IF	CITATIONS
1	Unified framework for fast exact and approximate search in dissimilarity spaces. ACM Transactions on Database Systems, 2007, 32, 29.	1.5	61
2	On nonmetric similarity search problems in complex domains. ACM Computing Surveys, 2011, 43, 1-50.	16.1	60
3	Nearest Neighbours Search Using the PM-Tree. Lecture Notes in Computer Science, 2005, , 803-815.	1.0	34
4	On Fast Non-metric Similarity Search by Metric Access Methods. Lecture Notes in Computer Science, 2006, , 718-736.	1.0	30
5	Combining CPU and GPU architectures for fast similarity search. Distributed and Parallel Databases, 2012, 30, 179-207.	1.0	28
6	Towards efficient indexing of arbitrary similarity. SIGMOD Record, 2013, 42, 5-10.	0.7	28
7	Ptolemaic access methods: Challenging the reign of the metric space model. Information Systems, 2013, 38, 989-1006.	2.4	27
8	Signature-Based Video Browser. Lecture Notes in Computer Science, 2014, , 415-418.	1.0	26
9	Dynamic similarity search in multi-metric spaces. , 2006, , .		24
10	Indexing the signature quadratic form distance for efficient content-based multimedia retrieval. , 2011, , .		22
11	Ptolemaic indexing of the signature quadratic form distance. , 2011, , .		22
12	D-Cache: Universal Distance Cache for Metric Access Methods. IEEE Transactions on Knowledge and Data Engineering, 2012, 24, 868-881.	4.0	22
13	On indexing metric spaces using cut-regions. Information Systems, 2014, 43, 1-19.	2.4	21
14	New dynamic construction techniques for M-tree. Journal of Discrete Algorithms, 2009, 7, 62-77.	0.7	20
15	NM-Tree: Flexible Approximate Similarity Search in Metric and Non-metric Spaces. Lecture Notes in Computer Science, 2008, , 312-325.	1.0	20
16	Enhanced Signature-Based Video Browser. Lecture Notes in Computer Science, 2015, , 243-248.	1.0	18
17	k-NN Classification of Malware in HTTPS Traffic Using the Metric Space Approach. Lecture Notes in Computer Science, 2016, , 131-145.	1.0	18
18	Improving the Performance of M-Tree Family by Nearest-Neighbor Graphs. Lecture Notes in Computer Science, 2007, , 172-188.	1.0	18

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19	A new range query algorithm for Universal B-trees. Information Systems, 2006, 31, 489-511.	2.4	17
20	Current and Future Issues in BPM Research: A European Perspective from the ERCIS Meeting 2010. Communications of the Association for Information Systems, 2011, 28, .	0.7	17
21	Adapting metric indexes for searching in multi-metric spaces. Multimedia Tools and Applications, 2012, 58, 467-496.	2.6	13
22	Analyzing and dynamically indexing the query set. Information Systems, 2014, 45, 37-47.	2.4	13
23	SProt: sphere-based protein structure similarity algorithm. Proteome Science, 2011, 9, S20.	0.7	12
24	Efficient Extraction of Feature Signatures Using Multi-GPU Architecture. Lecture Notes in Computer Science, 2013, , 446-456.	1.0	12
25	On Reinsertions in M-tree. , 2008, , .		11
26	Image exploration using online feature extraction and reranking. , 2012, , .		9
27	Towards efficient multimedia exploration using the metric space approach. , 2014, , .		9
28	Video Retrieval with Feature Signature Sketches. Lecture Notes in Computer Science, 2014, , 25-36.	1.0	9
29	Where are you heading, metric access methods?. , 2010, , .		8
30	Processing the signature quadratic form distance on many-core GPU architectures. , 2011, , .		8
31	Clustered pivot tables for I/O-optimized similarity search. , 2011, , .		8
32	Efficient extraction of clustering-based feature signatures using GPU architectures. Multimedia Tools and Applications, 2016, 75, 8071-8103.	2.6	8
33	Structural XML Query Processing. ACM Computing Surveys, 2017, 50, 1-41.	16.1	8
34	Visual Image Search: Feature Signatures or/and Global Descriptors. Lecture Notes in Computer Science, 2012, , 177-191.	1.0	8
35	Non-metric similarity search of tandem mass spectra including posttranslational modifications. Journal of Discrete Algorithms, 2012, 13, 19-31.	0.7	7
36	Scalable 3D shape retrieval using local features and the signature quadratic form distance. Visual Computer, 2017, 33, 1571-1585.	2.5	7

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37	Distinct nearest neighbors queries for similarity search in very large multimedia databases. , 2009, , .		6
38	On applications of parameterized hyperplane partitioning. , 2010, , .		6
39	Product Exploration based on Latent Visual Attributes. , 2017, , .		6
40	On Visualizations in the Role of Universal Data Representation. , 2020, , .		6
41	Multi-sketch Semantic Video Browser. Lecture Notes in Computer Science, 2016, , 406-411.	1.0	5
42	On (not) indexing quadratic form distance by metric access methods. , 2011, , .		4
43	Non-metric similarity search problems in very large collections. , 2011, , .		4
44	On Comparison of SimTandem with State-of-the-Art Peptide Identification Tools, Efficiency of Precursor Mass Filter and Dealing with Variable Modifications. Journal of Integrative Bioinformatics, 2013, 10, 1-15.	1.0	4
45	A Web Portal for Effective Multi-model Exploration. Lecture Notes in Computer Science, 2015, , 315-318.	1.0	4
46	MLES: Multilayer Exploration Structure for Multimedia Exploration. Communications in Computer and Information Science, 2015, , 135-144.	0.4	4
47	On Index-Free Similarity Search in Metric Spaces. Lecture Notes in Computer Science, 2009, , 516-531.	1.0	4
48	On Fuzzy vs. Metric Similarity Search in Complex Databases. Lecture Notes in Computer Science, 2009, , 64-75.	1.0	4
49	SIR: The Smart Image Retrieval Engine. Lecture Notes in Computer Science, 2012, , 240-241.	1.0	4
50	Cut-Region: A Compact Building Block for Hierarchical Metric Indexing. Lecture Notes in Computer Science, 2012, , 85-100.	1.0	4
51	Improving the similarity search of tandem mass spectra using metric access methods. , 2010, , .		3
52	Approximate search in dissimilarity spaces using GA. , 2019, , .		3
53	Algorithmic Exploration of Axiom Spaces for Efficient Similarity Search at Large Scale. Lecture Notes in Computer Science, 2012, , 40-53.	1.0	3
54	Improving Findability of Open Data Beyond Data Catalogs. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
55	Revisiting Techniques for Lowerbounding the Dynamic Time Warping Distance. Lecture Notes in Computer Science, 2012, , 192-208.	1.0	3
56	Real-Time Exploration of Multimedia Collections. Lecture Notes in Computer Science, 2014, , 198-205.	1.0	3
57	Construction of Tree-Based Indexes for Level-Contiguous Buffering Support. , 2007, , 361-373.		3
58	Metric Indexing for the Vector Model in Text Retrieval. Lecture Notes in Computer Science, 2004, , 183-195.	1.0	2
59	SoSIRe - IT professional social network. , 2011, , .		2
60	Efficient indexing of similarity models with inequality symbolic regression. , 2013, , .		2
61	On Effective Known Item Video Search Using Feature Signatures. , 2014, , .		2
62	Interactive Product Search Based on Global and Local Visual-Semantic Features. Lecture Notes in Computer Science, 2018, , 87-95.	1.0	2
63	The Geometric Framework for Exact and Similarity Querying XML Data. Lecture Notes in Computer Science, 2002, , 35-46.	1.0	2
64	On Scalable Approximate Search with the Signature Quadratic Form Distance. Lecture Notes in Computer Science, 2013, , 312-318.	1.0	2
65	Similarity vs. Relevance: From Simple Searches to Complex Discovery. Lecture Notes in Computer Science, 2021, , 104-117.	1.0	2
66	On Optimizing the Non-metric Similarity Search in Tandem Mass Spectra by Clustering. Lecture Notes in Computer Science, 2012, , 189-200.	1.0	2
67	Non-metric Similarity Search Using Genetic TriGen. Lecture Notes in Computer Science, 2019, , 86-93.	1.0	2
68	Fuzzy approach to non-metric similarity indexing. , 2011, , .		1
69	Dynamic multimedia exploration using SIFT matching. , 2013, , .		1
70	On augmenting database schemas by latent visual attributes. Knowledge and Information Systems, 2021, 63, 2277-2312.	2.1	1
71	SimTandem: Similarity Search in Tandem Mass Spectra. Lecture Notes in Computer Science, 2012, , 242-243.	1.0	1
72	Snake Table: A Dynamic Pivot Table for Streams of k-NN Searches. Lecture Notes in Computer Science, 2012, , 25-39.	1.0	1

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73	A Statistical Comparison of SimTandem with State-of-the-Art Peptide Identification Tools. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 101-109.	0.5	1
74	Advanced Behavioral Analyses Using Inferred Social Networks: A Vision. <i>Communications in Computer and Information Science</i> , 2019, , 210-219.	0.4	1
75	Visualizer of Dataset Similarity Using Knowledge Graph. <i>Lecture Notes in Computer Science</i> , 2020, , 371-378.	1.0	1
76	Analysing Indexability of Intrinsically High-Dimensional Data Using TriGen. <i>Lecture Notes in Computer Science</i> , 2020, , 261-269.	1.0	1
77	Evaluation Framework for Search Methods Focused on Dataset Findability in Open Data Catalogs. , 2020, , .		1
78	Modular framework for similarity-based dataset discovery using external knowledge. <i>Data Technologies and Applications</i> , 2022, 56, 506-535.	0.9	1
79	Modified LSI Model for Efficient Search by Metric Access Methods. <i>Lecture Notes in Computer Science</i> , 2005, , 245-259.	1.0	0
80	On reinsertions in M-tree. , 2008, , .		0
81	Protein sequences identification using NM-tree. , 2011, , .		0
82	Parameterized earth mover's distance for efficient metric space indexing. , 2011, , .		0
83	Similarity search in 3D object-based video data. , 2012, , .		0
84	What are the salient keyframes in short casual videos? an extensive user study using a new video dataset. , 2015, , .		0
85	Particle physics model for content-based 3D exploration. , 2016, , .		0
86	Malware Discovery Using Behaviour-Based Exploration of Network Traffic. <i>Lecture Notes in Computer Science</i> , 2017, , 315-323.	1.0	0
87	Inferred Social Networks: A Case Study. , 2019, , .		0
88	On Fusion of Learned and Designed Features for Video Data Analytics. <i>Lecture Notes in Computer Science</i> , 2021, , 268-280.	1.0	0
89	P3S: Protein Structure Similarity Search. <i>Lecture Notes in Computer Science</i> , 2013, , 228-237.	1.0	0
90	Designing Similarity Indexes with Parallel Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2013, , 294-299.	1.0	0