

# Pavel Zezula

## List of Publications by Year in descending order

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Version: 2024-02-01

99  
papers

1,736  
citations

471371

17  
h-index

315616

38  
g-index

102  
all docs

102  
docs citations

102  
times ranked

800  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metric Index: An efficient and scalable solution for precise and approximate similarity search. Information Systems, 2011, 36, 721-733.	2.4	112
2	D-Index: Distance Searching Index for Metric Data Sets. Multimedia Tools and Applications, 2003, 21, 9-33.	2.6	103
3	Building a web-scale image similarity search system. Multimedia Tools and Applications, 2010, 47, 599-629.	2.6	92
4	Approximate similarity retrieval with M-trees. VLDB Journal, 1998, 7, 275-293.	2.7	80
5	Binary Sketches for Secondary Filtering. ACM Transactions on Information Systems, 2019, 37, 1-28.	3.8	54
6	Region proximity in metric spaces and its use for approximate similarity search. ACM Transactions on Information Systems, 2003, 21, 192-227.	3.8	50
7	Effective and efficient similarity searching in motion capture data. Multimedia Tools and Applications, 2018, 77, 12073-12094.	2.6	44
8	LSTM-based real-time action detection and prediction in human motion streams. Multimedia Tools and Applications, 2019, 78, 27309-27331.	2.6	43
9	Similarity Join in Metric Spaces Using eD-Index. Lecture Notes in Computer Science, 2003, , 484-493.	1.0	42
10	MESSIF: Metric Similarity Search Implementation Framework. , 2007, , 1-10.		42
11	On scalability of the similarity search in the world of peers. , 2006, , .		41
12	Declustering of key-based partitioned signature files. ACM Transactions on Database Systems, 1996, 21, 295-338.	1.5	28
13	Large-scale similarity data management with distributed Metric Index. Information Processing and Management, 2012, 48, 855-872.	5.4	26
14	Scalability comparison of Peer-to-Peer similarity search structures. Future Generation Computer Systems, 2008, 24, 834-848.	4.9	23
15	Evaluation Platform for Content-Based Image Retrieval Systems. Lecture Notes in Computer Science, 2011, , 130-142.	1.0	23
16	Searching for variable-speed motions in long sequences of motion capture data. Information Systems, 2019, 80, 148-158.	2.4	20
17	A Scalable Nearest Neighbor Search in P2P Systems. Lecture Notes in Computer Science, 2005, , 79-92.	1.0	20
18	Large-scale Image Retrieval using Neural Net Descriptors. , 2015, , .		19

#	ARTICLE	IF	CITATIONS
19	PPP-Codes for Large-Scale Similarity Searching. Lecture Notes in Computer Science, 2016, , 61-87.	1.0	19
20	Similarity Grid for Searching in Metric Spaces. Lecture Notes in Computer Science, 2005, , 25-44.	1.0	17
21	Generic similarity search engine demonstrated by an image retrieval application. , 2009, , .		17
22	Tree Signatures for XML Querying and Navigation. Lecture Notes in Computer Science, 2003, , 149-163.	1.0	16
23	Assessing similarity models for humanâ€emotion retrieval applications. Computer Animation and Virtual Worlds, 2016, 27, 484-500.	0.7	15
24	Content-Based Management of Human Motion Data: Survey and Challenges. IEEE Access, 2021, 9, 64241-64255.	2.6	15
25	A Key-Pose Similarity Algorithm for Motion Data Retrieval. Lecture Notes in Computer Science, 2013, , 669-681.	1.0	15
26	Rank Aggregation of Candidate Sets for Efficient Similarity Search. Lecture Notes in Computer Science, 2014, , 42-58.	1.0	14
27	Motion Words: A Text-Like Representation of 3D Skeleton Sequences. Lecture Notes in Computer Science, 2020, , 527-541.	1.0	13
28	Web-scale system for image similarity search: When the dreams are coming true. , 2008, , .		12
29	Adaptive Approximate Similarity Searching through Metric Social Networks. , 2008, , .		11
30	Designing Sketches for Similarity Filtering. , 2016, , .		11
31	Motion Images: An Effective Representation of Motion Capture Data for Similarity Search. Lecture Notes in Computer Science, 2015, , 250-255.	1.0	11
32	Speeding up Similarity Search by Sketches. Lecture Notes in Computer Science, 2016, , 250-258.	1.0	11
33	Selecting signature files for specific applications. Information Processing and Management, 1993, 29, 487-498.	5.4	10
34	Similarity Searching for the Big Data. Mobile Networks and Applications, 2015, 20, 487-496.	2.2	9
35	Tree Signatures and Unordered XML Pattern Matching. Lecture Notes in Computer Science, 2004, , 122-139.	1.0	9
36	Nearest neighbor search in metric spaces through Content-Addressable Networks. Information Processing and Management, 2007, 43, 665-683.	5.4	8

#	ARTICLE	IF	CITATIONS
37	Fusion Strategies for Large-Scale Multi-modal Image Retrieval. Lecture Notes in Computer Science, 2017, , 146-184.	1.0	8
38	Query Language for Complex Similarity Queries. Lecture Notes in Computer Science, 2012, , 85-98.	1.0	8
39	Speeding up the multimedia feature extraction: a comparative study on the big data approach. Multimedia Tools and Applications, 2017, 76, 7497-7517.	2.6	7
40	Understanding the Gap between 2D and 3D Skeleton-Based Action Recognition. , 2019, , .		7
41	Augmenting Spatio-Temporal Human Motion Data for Effective 3D Action Recognition. , 2019, , .		7
42	Understanding the limits of 2D skeletons for action recognition. Multimedia Systems, 2021, 27, 547.	3.0	7
43	A Real-Time Annotation of Motion Data Streams. , 2017, , .		6
44	ConceptRank for search-based image annotation. Multimedia Tools and Applications, 2018, 77, 8847-8882.	2.6	6
45	Efficient Indexing of 3D Human Motions. , 2021, , .		6
46	Similarity Searching in Long Sequences of Motion Capture Data. Lecture Notes in Computer Science, 2016, , 271-285.	1.0	6
47	Content-based annotation and classification framework. , 2013, , .		5
48	Privacy-Preserving Outsourced Similarity Search. Journal of Database Management, 2014, 25, 48-71.	1.0	5
49	Enhancing Similarity Search Throughput by Dynamic Query Reordering. Lecture Notes in Computer Science, 2016, , 185-200.	1.0	5
50	Querying Similarity in Metric Social Networks. , 2007, , 278-287.		5
51	Combining Metric Features in Large Collections. , 2008, , .		4
52	Similarity Searching: Towards Bulk-Loading Peer-to-Peer Networks. , 2008, , .		4
53	Distance browsing in distributed multimedia databases. Future Generation Computer Systems, 2009, 25, 64-76.	4.9	4
54	Stabilizing the recall in similarity search. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
55	Face Image Retrieval Revisited. Lecture Notes in Computer Science, 2015, , 204-216.	1.0	4
56	Search-Based Image Annotation: Extracting Semantics from Similar Images. Lecture Notes in Computer Science, 2015, , 327-339.	1.0	4
57	Probabilistic Classification of Skeleton Sequences. Lecture Notes in Computer Science, 2018, , 50-65.	1.0	4
58	Secure Metric-Based Index for Similarity Cloud. Lecture Notes in Computer Science, 2012, , 130-147.	1.0	4
59	Inherent Fusion. Journal of Database Management, 2016, 27, 1-23.	1.0	4
60	Principles of Holism for sequential twig pattern matching. VLDB Journal, 2009, 18, 1369-1392.	2.7	3
61	Similarity Search in 3D Human Motion Data. , 2019, , .		3
62	On the application of convex transforms to metric search. Pattern Recognition Letters, 2020, 138, 563-570.	2.6	3
63	Fast Subsequence Matching in Motion Capture Data. Lecture Notes in Computer Science, 2017, , 59-72.	1.0	3
64	SPEED21: Speed Climbing Motion Dataset. , 2021, , .		3
65	Efficient Image Search with Neural Net Features. Lecture Notes in Computer Science, 2015, , 237-243.	1.0	3
66	Tracking subjects and detecting relationships in crowded city videos. Multimedia Tools and Applications, 2024, 83, 15339-15361.	2.6	3
67	Combining metric features in large collections. , 2008, , .		2
68	Searching for Sub-images Using Sequence Alignment. , 2011, , .		2
69	Efficiency and security in similarity cloud services. Proceedings of the VLDB Endowment, 2013, 6, 1450-1455.	2.1	2
70	CLAN Photo Presenter. , 2014, , .		2
71	Similarity Searching for Database Applications. Lecture Notes in Computer Science, 2016, , 3-10.	1.0	2
72	Multi-modal Image Retrieval for Search-Based Image Annotation with RF. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
73	Multi Feature Indexing Network MUFIN for Similarity Search Applications. Lecture Notes in Computer Science, 2012, , 77-87.	1.0	2
74	Efficiency and Scalability Issues in Metric Access Methods. Studies in Computational Intelligence, 2008, , 235-263.	0.7	2
75	Cache and Priority Queue Based Approximation Technique for a Stream of Similarity Search Queries. Lecture Notes in Computer Science, 2017, , 17-33.	1.0	2
76	Techniques for Complex Analysis of Contemporary Data. , 2020, , .		2
77	Key-based partitioned bit-sliced signature file. ACM SIGIR Forum, 1995, 29, 20-34.	0.4	1
78	Scalable Similarity Search for Big Data. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2015, , 3-12.	0.2	1
79	Combining Cache and Priority Queue to Enhance Evaluation of Similarity Search Queries. , 2018, , .		1
80	Similarity-Based Processing of Motion Capture Data. , 2018, , .		1
81	Benchmarking Search and Annotation in Continuous Human Skeleton Sequences. , 2019, , .		1
82	Recognizing User-Defined Subsequences in Human Motion Data. , 2019, , .		1
83	Efficient combination of classifiers for 3D action recognition. Multimedia Systems, 2021, 27, 941-952.	3.0	1
84	Efficient Retrieval of Human Motion Episodes Based on Indexed Motion-Word Representations. International Journal of Semantic Computing, 2021, 15, 189-213.	0.4	1
85	Accelerating Metric Filtering by Improving Bounds on Estimated Distances. Lecture Notes in Computer Science, 2020, , 3-17.	1.0	1
86	Similarity Search for an Extreme Application: Experience and Implementation. Lecture Notes in Computer Science, 2021, , 265-279.	1.0	1
87	Generic Subsequence Matching Framework: Modularity, Flexibility, Efficiency. Lecture Notes in Computer Science, 2012, , 256-265.	1.0	1
88	Speeding Up Continuous kNN Join by Binary Sketches. Lecture Notes in Computer Science, 2018, , 183-198.	1.0	1
89	Algebra for Complex Analysis of Data. Lecture Notes in Computer Science, 2020, , 177-187.	1.0	1
90	Real-life performance of metric searching. SIGSPATIAL Special, 2010, 2, 28-31.	2.5	0

#	ARTICLE	IF	CITATIONS
91	Towards High Similarity Search Throughput by Dynamic Query Reordering and Parallel Processing. Lecture Notes in Computer Science, 2017, , 262-277.	1.0	0
92	On the Similarity Search With Hamming Space Sketches. Advances in Data Mining and Database Management Book Series, 2021, , 97-127.	0.4	0
93	Indexing Metric Spaces. , 2009, , 1451-1454.		0
94	Toward Self-Organizing Search Systems. Computer Communications and Networks, 2010, , 49-80.	0.8	0
95	On Combining Sequence Alignment and Feature-Quantization for Sub-Image Searching. International Journal of Multimedia Data Engineering and Management, 2012, 3, 20-44.	0.3	0
96	Indexing Metric Spaces. , 2014, , 1-5.		0
97	Towards Faster Similarity Search by Dynamic Reordering of Streamed Queries. Lecture Notes in Computer Science, 2018, , 61-88.	1.0	0
98	Indexing Metric Spaces. , 2018, , 1876-1880.		0
99	Data-dependent metric filtering. Information Systems, 2021, , 101980.	2.4	0