

David M Mount

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3971324/publications.pdf>

Version: 2024-02-01

45
papers

3,116
citations

566801

15
h-index

433756

31
g-index

45
all docs

45
docs citations

45
times ranked

2377
citing authors

#	ARTICLE	IF	CITATIONS
1	An optimal algorithm for approximate nearest neighbor searching fixed dimensions. Journal of the ACM, 1998, 45, 891-923.	1.8	1,875
2	A local search approximation algorithm for k-means clustering. Computational Geometry: Theory and Applications, 2004, 28, 89-112.	0.3	244
3	A FAST IMPLEMENTATION OF THE ISODATA CLUSTERING ALGORITHM. International Journal of Computational Geometry and Applications, 2007, 17, 71-103.	0.3	157
4	Efficient algorithms for robust feature matching. Pattern Recognition, 1999, 32, 17-38.	5.1	137
5	Space-time tradeoffs for approximate nearest neighbor searching. Journal of the ACM, 2009, 57, 1-54.	1.8	88
6	Approximate range searching. A preliminary version of this paper appeared in the Proc. of the 11th Annual ACM Symp. on Computational Geometry, 1995, pp.172-181. Computational Geometry: Theory and Applications, 2000, 17, 135-152.	0.3	85
7	An output sensitive algorithm for computing visibility graphs. , 1987, , .		67
8	Algorithmic issues in modeling motion. ACM Computing Surveys, 2002, 34, 550-572.	16.1	51
9	A RANDOMIZED ALGORITHM FOR SLOPE SELECTION. International Journal of Computational Geometry and Applications, 1992, 02, 1-27.	0.3	47
10	On the Least Trimmed Squares Estimator. Algorithmica, 2014, 69, 148-183.	1.0	42
11	Space-efficient approximate Voronoi diagrams. , 2002, , .		38
12	Query-Sensitive Ray Shooting. International Journal of Computational Geometry and Applications, 1997, 07, 317-347.	0.3	26
13	On the Least Median Square Problem. Discrete and Computational Geometry, 2006, 36, 593-607.	0.4	26
14	APPROXIMATION ALGORITHM FOR MULTIPLE-TOOL MILLING. International Journal of Computational Geometry and Applications, 2001, 11, 339-372.	0.3	24
15	A practical approximation algorithm for the LMS line estimator. Computational Statistics and Data Analysis, 2007, 51, 2461-2486.	0.7	21
16	Approximate range searching: The absolute model. Computational Geometry: Theory and Applications, 2010, 43, 434-444.	0.3	21
17	Efficient randomized algorithms for robust estimation of circular arcs and aligned ellipses. A preliminary version of this report was presented at the Fifth Canadian Conference on Computational Geometry [32]. Computational Geometry: Theory and Applications, 2001, 19, 1-33.	0.3	19
18	The Effect of Corners on the Complexity of Approximate Range Searching. Discrete and Computational Geometry, 2009, 41, 398-443.	0.4	14

#	ARTICLE	IF	CITATIONS
19	QUANTILE APPROXIMATION FOR ROBUST STATISTICAL ESTIMATION AND k -ENCLOSING PROBLEMS. International Journal of Computational Geometry and Applications, 2000, 10, 593-608.	0.3	12
20	Approximation algorithm for the kinetic robust K-center problem. Computational Geometry: Theory and Applications, 2010, 43, 572-586.	0.3	12
21	On the importance of idempotence. , 2006, , .		10
22	A practical approximation algorithm for the LTS estimator. Computational Statistics and Data Analysis, 2016, 99, 148-170.	0.7	10
23	Optimal area-sensitive bounds for polytope approximation. , 2012, , .		8
24	Tight Lower Bounds for Halfspace Range Searching. Discrete and Computational Geometry, 2012, 47, 711-730.	0.4	8
25	On the Combinatorial Complexity of Approximating Polytopes. Discrete and Computational Geometry, 2017, 58, 849-870.	0.4	8
26	On the Complexity of an Unregulated Traffic Crossing. Lecture Notes in Computer Science, 2015, , 224-235.	1.0	8
27	Proximity problems on line segments spanned by points. Computational Geometry: Theory and Applications, 2006, 33, 115-129.	0.3	7
28	Improved Approximation Bounds for Planar Point Pattern Matching. Algorithmica, 2008, 50, 175-207.	1.0	7
29	Approximate polytope membership queries. , 2011, , .		6
30	Tradeoffs in Approximate Range Searching Made Simpler. , 2008, , .		5
31	A Self-adjusting Data Structure for Multidimensional Point Sets. Lecture Notes in Computer Science, 2012, , 778-789.	1.0	5
32	A Unified Approach to Approximate Proximity Searching. Lecture Notes in Computer Science, 2010, , 374-385.	1.0	5
33	New approaches to robust, point-based image registration. , 0, , 179-199.		4
34	Optimal Approximate Polytope Membership. , 2017, , .		4
35	On the least median square problem. , 2004, , .		3
36	Approximate Polytope Membership Queries. SIAM Journal on Computing, 2018, 47, 1-51.	0.8	3

#	ARTICLE	IF	CITATIONS
37	Parallelizing an Algorithm for Visibility on Polyhedral Terrain. International Journal of Computational Geometry and Applications, 1997, 07, 75-84.	0.3	2
38	New Directions in Approximate Nearest-Neighbor Searching. Lecture Notes in Computer Science, 2019, , 1-15.	1.0	2
39	Spatio-temporal Range Searching over Compressed Kinetic Sensor Data. Lecture Notes in Computer Science, 2010, , 386-397.	1.0	2
40	Enhancements in robust feature matching. , 2008, , .		1
41	Output-sensitive well-separated pair decompositions for dynamic point sets. , 2013, , .		1
42	Space Exploration via Proximity Search. Discrete and Computational Geometry, 2016, 56, 357-376.	0.4	1
43	A sensor-based framework for kinetic data compression. Computational Geometry: Theory and Applications, 2015, 48, 147-168.	0.3	0
44	Modular Circulation and Applications to Traffic Management. Algorithmica, 2019, 81, 4098-4117.	1.0	0
45	Guarantees on nearest-neighbor condensation heuristics. Computational Geometry: Theory and Applications, 2021, 95, 101732.	0.3	0