

David M Mount

List of Publications by Year in descending order

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45
papers

3,116
citations

567281

15
h-index

434195

31
g-index

45
all docs

45
docs citations

45
times ranked

2377
citing authors

#	ARTICLE	IF	CITATIONS
1	Guarantees on nearest-neighbor condensation heuristics. Computational Geometry: Theory and Applications, 2021, 95, 101732.	0.5	0
2	New Directions in Approximate Nearest-Neighbor Searching. Lecture Notes in Computer Science, 2019, , 1-15.	1.3	2
3	Modular Circulation and Applications to Traffic Management. Algorithmica, 2019, 81, 4098-4117.	1.3	0
4	Approximate Polytope Membership Queries. SIAM Journal on Computing, 2018, 47, 1-51.	1.0	3
5	Optimal Approximate Polytope Membership. , 2017, , .		4
6	On the Combinatorial Complexity of Approximating Polytopes. Discrete and Computational Geometry, 2017, 58, 849-870.	0.6	8
7	Space Exploration via Proximity Search. Discrete and Computational Geometry, 2016, 56, 357-376.	0.6	1
8	A practical approximation algorithm for the LTS estimator. Computational Statistics and Data Analysis, 2016, 99, 148-170.	1.2	10
9	A sensor-based framework for kinetic data compression. Computational Geometry: Theory and Applications, 2015, 48, 147-168.	0.5	0
10	On the Complexity of an Unregulated Traffic Crossing. Lecture Notes in Computer Science, 2015, , 224-235.	1.3	8
11	On the Least Trimmed Squares Estimator. Algorithmica, 2014, 69, 148-183.	1.3	42
12	Output-sensitive well-separated pair decompositions for dynamic point sets. , 2013, , .		1
13	Optimal area-sensitive bounds for polytope approximation. , 2012, , .		8
14	Tight Lower Bounds for Halfspace Range Searching. Discrete and Computational Geometry, 2012, 47, 711-730.	0.6	8
15	A Self-adjusting Data Structure for Multidimensional Point Sets. Lecture Notes in Computer Science, 2012, , 778-789.	1.3	5
16	Approximate polytope membership queries. , 2011, , .		6
17	Approximate range searching: The absolute model. Computational Geometry: Theory and Applications, 2010, 43, 434-444.	0.5	21
18	Approximation algorithm for the kinetic robust K-center problem. Computational Geometry: Theory and Applications, 2010, 43, 572-586.	0.5	12

#	ARTICLE	IF	CITATIONS
19	A Unified Approach to Approximate Proximity Searching. Lecture Notes in Computer Science, 2010, , 374-385.	1.3	5
20	Spatio-temporal Range Searching over Compressed Kinetic Sensor Data. Lecture Notes in Computer Science, 2010, , 386-397.	1.3	2
21	The Effect of Corners on the Complexity of Approximate Range Searching. Discrete and Computational Geometry, 2009, 41, 398-443.	0.6	14
22	Space-time tradeoffs for approximate nearest neighbor searching. Journal of the ACM, 2009, 57, 1-54.	2.2	88
23	Improved Approximation Bounds for Planar Point Pattern Matching. Algorithmica, 2008, 50, 175-207.	1.3	7
24	Tradeoffs in Approximate Range Searching Made Simpler. , 2008, , .		5
25	Enhancements in robust feature matching. , 2008, , .		1
26	A FAST IMPLEMENTATION OF THE ISODATA CLUSTERING ALGORITHM. International Journal of Computational Geometry and Applications, 2007, 17, 71-103.	0.5	157
27	A practical approximation algorithm for the LMS line estimator. Computational Statistics and Data Analysis, 2007, 51, 2461-2486.	1.2	21
28	Proximity problems on line segments spanned by points. Computational Geometry: Theory and Applications, 2006, 33, 115-129.	0.5	7
29	On the Least Median Square Problem. Discrete and Computational Geometry, 2006, 36, 593-607.	0.6	26
30	On the importance of idempotence. , 2006, , .		10
31	On the least median square problem. , 2004, , .		3
32	A local search approximation algorithm for k-means clustering. Computational Geometry: Theory and Applications, 2004, 28, 89-112.	0.5	244
33	Algorithmic issues in modeling motion. ACM Computing Surveys, 2002, 34, 550-572.	23.0	51
34	Space-efficient approximate Voronoi diagrams. , 2002, , .		38
35	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.	0.5	19
36	APPROXIMATION ALGORITHM FOR MULTIPLE-TOOL MILLING. International Journal of Computational Geometry and Applications, 2001, 11, 339-372.	0.5	24

#	ARTICLE	IF	CITATIONS
37	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.	0.5	85
38	QUANTILE APPROXIMATION FOR ROBUST STATISTICAL ESTIMATION AND k -ENCLOSING PROBLEMS. International Journal of Computational Geometry and Applications, 2000, 10, 593-608.	0.5	12
39	Efficient algorithms for robust feature matching. Pattern Recognition, 1999, 32, 17-38.	8.1	137
40	An optimal algorithm for approximate nearest neighbor searching fixed dimensions. Journal of the ACM, 1998, 45, 891-923.	2.2	1,875
41	Parallelizing an Algorithm for Visibility on Polyhedral Terrain. International Journal of Computational Geometry and Applications, 1997, 07, 75-84.	0.5	2
42	Query-Sensitive Ray Shooting. International Journal of Computational Geometry and Applications, 1997, 07, 317-347.	0.5	26
43	A RANDOMIZED ALGORITHM FOR SLOPE SELECTION. International Journal of Computational Geometry and Applications, 1992, 02, 1-27.	0.5	47
44	An output sensitive algorithm for computing visibility graphs. , 1987, , .		67
45	New approaches to robust, point-based image registration. , 0, , 179-199.		4