

Mikkel Thorup

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,640
citations

279487

23
h-index

214527

47
g-index

65
all docs

65
docs citations

65
times ranked

1113
citing authors

#	ARTICLE	IF	CITATIONS
1	Dijkstra's Single Source Shortest Path Algorithm. , 2022, , 21-26.		0
2	Disks in Curves of Bounded Convex Curvature. American Mathematical Monthly, 2020, 127, 579-593.	0.2	3
3	Fast hashing with strong concentration bounds. , 2020, , .		1
4	Confirmation Sampling for Exact Nearest Neighbor Search. Lecture Notes in Computer Science, 2020, , 97-110.	1.0	0
5	Adjacency Labeling Schemes and Induced-Universal Graphs. SIAM Journal on Discrete Mathematics, 2019, 33, 116-137.	0.4	9
6	Sample(x)=(a*x<=t) Is a Distinguisher with Probability 1/8. SIAM Journal on Computing, 2018, 47, 2510-2526.	0.8	0
7	Fast and powerful hashing using tabulation. Communications of the ACM, 2017, 60, 94-101.	3.3	3
8	On the k-Independence Required by Linear Probing and Minwise Independence. ACM Transactions on Algorithms, 2016, 12, 1-27.	0.9	9
9	Sample (x) = (a*x<=t) is a Distinguisher with Probability 1/8. , 2015, , .		0
10	Planar Reachability in Linear Space and Constant Time. , 2015, , .		7
11	Hashing for Statistics over K-Partitions. , 2015, , .		13
12	From Independence to Expansion and Back Again. , 2015, , .		10
13	RAM-Efficient External Memory Sorting. Algorithmica, 2015, 73, 623-636.	1.0	2
14	Algorithms and estimators for summarization of unaggregated data streams. Journal of Computer and System Sciences, 2014, 80, 1214-1244.	0.9	9
15	Approximately Minwise Independence with Twisted Tabulation. Lecture Notes in Computer Science, 2014, , 134-145.	1.0	6
16	Simple Tabulation, Fast Expanders, Double Tabulation, and High Independence. , 2013, , .		17
17	Intra-domain traffic engineering with shortest path routing protocols. Annals of Operations Research, 2013, 204, 65-95.	2.6	28
18	Mihai Pătrăuceanu. ACM SIGACT News, 2013, 44, 110-114.	0.1	1

#	ARTICLE	IF	CITATIONS
19	Bottom-k and priority sampling, set similarity and subset sums with minimal independence. , 2013, , .		19
20	Nearest neighbor classification using bottom-k sketches. , 2013, , .		1
21	Twisted Tabulation Hashing. , 2013, , .		5
22	The Power of Simple Tabulation Hashing. Journal of the ACM, 2012, 59, 1-50.	1.8	39
23	A New Infinity of Distance Oracles for Sparse Graphs. , 2012, , .		16
24	Tabulation-Based 5-Independent Hashing with Applications to Linear Probing and Second Moment Estimation. SIAM Journal on Computing, 2012, 41, 293-331.	0.8	46
25	The Minimum k -way Cut of Bounded Size is Fixed-Parameter Tractable. , 2011, , .		27
26	Efficient Stream Sampling for Variance-Optimal Estimation of Subset Sums. SIAM Journal on Computing, 2011, 40, 1402-1431.	0.8	18
27	Changing base without losing space. , 2010, , .		33
28	Maximum Overhang. American Mathematical Monthly, 2009, 116, 763-787.	0.2	11
29	Composable, scalable, and accurate weight summarization of unaggregated data sets. Proceedings of the VLDB Endowment, 2009, 2, 431-442.	2.1	4
30	Oracles for Distances Avoiding a Failed Node or Link. SIAM Journal on Computing, 2008, 37, 1299-1318.	0.8	65
31	Speeding Up Dynamic Shortest-Path Algorithms. INFORMS Journal on Computing, 2008, 20, 191-204.	1.0	41
32	Equivalence between priority queues and sorting. Journal of the ACM, 2007, 54, 28.	1.8	25
33	Dynamic ordered sets with exponential search trees. Journal of the ACM, 2007, 54, 13.	1.8	60
34	Fully-Dynamic Min-Cut*. Combinatorica, 2007, 27, 91-127.	0.6	47
35	Time-space trade-offs for predecessor search. , 2006, , .		101
36	Confidence intervals for priority sampling. Performance Evaluation Review, 2006, 34, 252-263.	0.4	3

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37	Approximate distance oracles. <i>Journal of the ACM</i> , 2005, 52, 1-24.	1.8	417
38	Increasing Internet Capacity Using Local Search. <i>Computational Optimization and Applications</i> , 2004, 29, 13-48.	0.9	175
39	Integer priority queues with decrease key in constant time and the single source shortest paths problem. <i>Journal of Computer and System Sciences</i> , 2004, 69, 330-353.	0.9	74
40	OPTVersusLOADin Dynamic Storage Allocation. <i>SIAM Journal on Computing</i> , 2004, 33, 632-646.	0.8	37
41	Rounding Algorithms for a Geometric Embedding of Minimum Multiway Cut. <i>Mathematics of Operations Research</i> , 2004, 29, 436-461.	0.8	74
42	Untangling the balancing and searching of balanced binary search trees. <i>Software - Practice and Experience</i> , 2003, 33, 1273-1298.	2.5	7
43	Performance of estimated traffic matrices in traffic engineering. <i>Performance Evaluation Review</i> , 2003, 31, 326-327.	0.4	3
44	Combinatorial power in multimedia processors. <i>Computer Architecture News</i> , 2003, 31, 5-11.	2.5	8
45	Randomized Sorting in $O(n \log \log n)$ Time and Linear Space Using Addition, Shift, and Bit-wise Boolean Operations. <i>Journal of Algorithms</i> , 2002, 42, 205-230.	0.9	42
46	Optimal Pointer Algorithms for Finding Nearest Common Ancestors in Dynamic Trees. <i>Journal of Algorithms</i> , 2000, 35, 169-188.	0.9	14
47	Floats, Integers, and Single Source Shortest Paths. <i>Journal of Algorithms</i> , 2000, 35, 189-201.	0.9	51
48	On RAM Priority Queues. <i>SIAM Journal on Computing</i> , 2000, 30, 86-109.	0.8	82
49	An $O(n \log n)$ Algorithm for the Maximum Agreement Subtree Problem for Binary Trees. <i>SIAM Journal on Computing</i> , 2000, 30, 1385-1404.	0.8	76
50	Undirected single-source shortest paths with positive integer weights in linear time. <i>Journal of the ACM</i> , 1999, 46, 362-394.	1.8	330
51	Decremental Dynamic Connectivity. <i>Journal of Algorithms</i> , 1999, 33, 229-243.	0.9	24
52	Dominators in Linear Time. <i>SIAM Journal on Computing</i> , 1999, 28, 2117-2132.	0.8	105
53	All Structured Programs Have Small Tree Width and Good Register Allocation. <i>Information and Computation</i> , 1998, 142, 159-181.	0.5	131
54	On the Approximability of Numerical Taxonomy (Fitting Distances by Tree Metrics). <i>SIAM Journal on Computing</i> , 1998, 28, 1073-1085.	0.8	71

#	ARTICLE	IF	CITATIONS
55	Sparse Dynamic Programming for Evolutionary-Tree Comparison. SIAM Journal on Computing, 1997, 26, 210-230.	0.8	35
56	Sampling to provide or to bound: With applications to fully dynamic graph algorithms. Random Structures and Algorithms, 1997, 11, 369-379.	0.6	22
57	Parallel Shortcutting of Rooted Trees. Journal of Algorithms, 1997, 23, 139-159.	0.9	22
58	Sampling to provide or to bound: With applications to fully dynamic graph algorithms. , 1997, 11, 369.		6
59	Dictionaries on AC ⁰ RAMs: Query Time $\Theta(\log n / \log \log n)$ is Necessary and Sufficient. BRICS Report Series, 1997, 4, .	0.2	9
60	Disambiguating grammars by exclusion of sub-parse trees. Acta Informatica, 1996, 33, 511-522.	0.5	3
61	Disambiguating grammars by exclusion of sub-parse trees. Acta Informatica, 1996, 33, 511-522.	0.5	12
62	Efficient Preprocessing of Simple Binary Pattern Forests. Journal of Algorithms, 1996, 20, 602-612.	0.9	3
63	Shortcutting Planar Digraphs. Combinatorics Probability and Computing, 1995, 4, 287-315.	0.8	22
64	On the agreement of many trees. Information Processing Letters, 1995, 55, 297-301.	0.4	105
65	How to Cut Corners and Get Bounded Convex Curvature. Discrete and Computational Geometry, 0, , .	0.4	1