S Muthukrishnan

List of Publications by Year in descending order

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279701 197736 5,483 77 23 49 citations h-index g-index papers 80 80 80 2704 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	An improved data stream summary: the count-min sketch and its applications. Journal of Algorithms, 2005, 55, 58-75.	0.9	1,326
2	Data Streams: Algorithms and Applications. Foundations and Trends in Theoretical Computer Science, 2005, 1, 117-236.	2.0	568
3	Node Classification in Social Networks. , 2011, , 115-148.		313
4	What's hot and what's not: tracking most frequent items dynamically. ACM Transactions on Database Systems, 2005, 30, 249-278.	1.5	269
5	Heavy-Hitter Detection Entirely in the Data Plane. , 2017, , .		266
6	Scheduling on-demand broadcasts. , 1998, , .		184
7	Near-optimal sparse fourier representations via sampling. , 2002, , .		156
8	Fast, small-space algorithms for approximate histogram maintenance., 2002,,.		138
9	What's new: finding significant differences in network data streams. IEEE/ACM Transactions on Networking, 2005, 13, 1219-1232.	2.6	123
10	Ad Exchanges: Research Issues. Lecture Notes in Computer Science, 2009, , 1-12.	1.0	122
11	Finding Hierarchical Heavy Hitters in Data Streams. , 2003, , 464-475.		121
12	First- and Second-Order Diffusive Methods for Rapid, Coarse, Distributed Load Balancing. Theory of Computing Systems, 1998, 31, 331-354.	0.7	114
13	Compressing and indexing labeled trees, with applications. Journal of the ACM, 2009, 57, 1-33.	1.8	113
14	An Improved Data Stream Summary: The Count-Min Sketch and Its Applications. Lecture Notes in Computer Science, 2004, , 29-38.	1.0	107
15	Online Ad Assignment with Free Disposal. Lecture Notes in Computer Science, 2009, , 374-385.	1.0	106
16	Budget optimization in search-based advertising auctions. , 2007, , .		103
17	One-pass wavelet decompositions of data streams. IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 541-554.	4.0	97
18	Yield Optimization of Display Advertising with Ad Exchange. Management Science, 2014, 60, 2886-2907.	2.4	96

#	Article	IF	CITATIONS
19	How to Summarize the Universe. , 2002, , 454-465.		81
20	Comparing data streams using hamming norms (how to zero in). IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 529-540.	4.0	68
21	On Rectangular Partitionings in Two Dimensions: Algorithms, Complexity and Applications. Lecture Notes in Computer Science, 1999, , 236-256.	1.0	67
22	Finding hierarchical heavy hitters in streaming data. ACM Transactions on Knowledge Discovery From Data, 2008, $1,1$ -48.	2.5	62
23	Tight Analyses of Two Local Load Balancing Algorithms. SIAM Journal on Computing, 1999, 29, 29-64.	0.8	45
24	Efficient Approximation Algorithms for Tiling and Packing Problems with Rectangles. Journal of Algorithms, 2001, 41, 443-470.	0.9	42
25	Optimal and approximate computation of summary statistics for range aggregates. , 2001, , .		42
26	Selectively estimation for Boolean queries. , 2000, , .		41
27	What's Different: Distributed, Continuous Monitoring of Duplicate-Resilient Aggregates on Data Streams., 2006,,.		41
28	Optimal logarithmic time randomized suffix tree construction. Lecture Notes in Computer Science, 1996, , 550-561.	1.0	39
29	40 years of suffix trees. Communications of the ACM, 2016, 59, 66-73.	3.3	37
30	Comparing Data Streams Using Hamming Norms (How to Zero In)., 2002,, 335-345.		36
31	Optimal parallel dictionary matching and compression (extended abstract)., 1995,,.		35
32	Stochastic Models for Budget Optimization inÂSearch-Based Advertising. Algorithmica, 2010, 58, 1022-1044.	1.0	32
33	Optimally fast parallel algorithms for preprocessing and pattern matching in one and two dimensions. , 0, , .		30
34	Sequential Change Detection on Data Streams., 2007,,.		30
35	Bidding to the Top: VCG and Equilibria of Position-Based Auctions. Lecture Notes in Computer Science, 2007, , 15-28.	1.0	30
36	Augmenting Suffix Trees, with Applications. Lecture Notes in Computer Science, 1998, , 67-78.	1.0	30

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37	Approximation Algorithms for Average Stretch Scheduling. Journal of Scheduling, 2004, 7, 195-222.	1.3	26
38	A Truthful Mechanism for Offline Ad Slot Scheduling. Lecture Notes in Computer Science, 2008, , 182-193.	1.0	23
39	Internet Ad Auctions: Insights and Directions. Lecture Notes in Computer Science, 2008, , 14-23.	1.0	22
40	Exact Size of Binary Space Partitionings and Improved Rectangle Tiling Algorithms. SIAM Journal on Discrete Mathematics, 2002, 15, 252-267.	0.4	19
41	Position Auctions with Bidder-Specific Minimum Prices. Lecture Notes in Computer Science, 2008, , 577-584.	1.0	19
42	SocialCDN: Caching techniques for distributed social networks. , 2012, , .		18
43	Two-dimensional substring indexing. Journal of Computer and System Sciences, 2003, 66, 763-774.	0.9	17
44	Fast mining of massive tabular data via approximate distance computations. , 0, , .		16
45	Social Butterfly: Social Caches for Distributed Social Networks. , 2011, , .		15
46	Highly efficient dictionary matching in parallel. , 1993, , .		14
47	A Constant Time Optimal Parallel Algorithm for Two-Dimensional Pattern Matching. SIAM Journal on Computing, 1998, 27, 668-681.	0.8	13
48	App2Vec: Vector modeling of mobile apps and applications. , 2016, , .		11
49	Constructions and Applications for Accurate Counting of the Bloom Filter False Positive Free Zone. , 2020, , .		11
50	Stochastic Budget Optimization in Internet Advertising. Algorithmica, 2013, 65, 634-661.	1.0	10
51	Socializing the h-index. Journal of Informetrics, 2013, 7, 718-721.	1.4	9
52	Domain-driven data synopses for dynamic quantiles. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 927-938.	4.0	8
53	Generalized substring selectivity estimation. Journal of Computer and System Sciences, 2003, 66, 98-132.	0.9	7
54	Approximation algorithms for MAX–MIN tiling. Journal of Algorithms, 2003, 47, 122-134.	0.9	7

#	Article	ΙF	Citations
55	Estimating Entropy and Entropy Norm on Data Streams. Internet Mathematics, 2006, 3, 63-78.	0.7	7
56	On Signatures for Communication Graphs. , 2008, , .		7
57	Avoiding Flow Size Overestimation in Count-Min Sketch With Bloom Filter Constructions. IEEE Transactions on Network and Service Management, 2021, 18, 3662-3676.	3.2	7
58	Theory research at Google. ACM SIGACT News, 2008, 39, 10-28.	0.1	6
59	Second-Order Methods for Distributed Approximate Single- and Multicommodity Flow. Lecture Notes in Computer Science, 1998, , 369-384.	1.0	5
60	AN ADVERSARIAL MODEL FOR DISTRIBUTED DYNAMIC LOAD BALANCING. Journal of Interconnection Networks, 2002, 03, 35-47.	0.6	5
61	Targeting algorithms for online social advertising markets. , 2016, , .		4
62	Scienceography: The Study of How Science Is Written. Lecture Notes in Computer Science, 2012, , 379-391.	1.0	3
63	Simple Optimal Parallel Multiple Pattern Matching. Journal of Algorithms, 2000, 34, 1-13.	0.9	2
64	Graphical Model Sketch. Lecture Notes in Computer Science, 2016, , 81-97.	1.0	2
65	Streaming Algorithms for Data in Motion. Lecture Notes in Computer Science, 2007, , 294-304.	1.0	2
66	Detecting False Matches in String-Matching Algorithms. Algorithmica, 1997, 18, 512-520.	1.0	1
67	Parallel scheduling problems in next generation wireless networks. Networks, 2005, 45, 9-22.	1.6	1
68	Fractal Modeling of IP Network Traffic at Streaming Speeds. , 2006, , .		1
69	The Graham-Knowlton Problem Revisited. Theory of Computing Systems, 2006, 39, 399-412.	0.7	1
70	Modeling collaboration in academia. , 2014, , .		1
71	Stochastic Data Streams. Lecture Notes in Computer Science, 2009, , 55-55.	1.0	1
72	Parallel two dimensional witness computation. Information and Computation, 2004, 188, 20-67.	0.5	0

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73	Efficient String Matching Algorithms for Combinatorial Universal Denoising. , 0, , .		0
74	Studying the source code of scientific research. SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2013, 14, 59-62.	3.2	0
75	Analyses of Cardinal Auctions. Algorithmica, 2015, 71, 889-903.	1.0	O
76	Streaming Algorithms for Measuring H-Impact. , 2017, , .		0
77	Data management and mining in internet ad systems. Proceedings of the VLDB Endowment, 2010, 3, 1655-1656.	2.1	0