

S Muthukrishnan

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

5,483
citations

279701

23
h-index

197736

49
g-index

80
all docs

80
docs citations

80
times ranked

2704
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Constructions and Applications for Accurate Counting of the Bloom Filter False Positive Free Zone. , 2020, , .		11
3	Streaming Algorithms for Measuring H-Impact. , 2017, , .		0
4	Heavy-Hitter Detection Entirely in the Data Plane. , 2017, , .		266
5	App2Vec: Vector modeling of mobile apps and applications. , 2016, , .		11
6	Targeting algorithms for online social advertising markets. , 2016, , .		4
7	40 years of suffix trees. Communications of the ACM, 2016, 59, 66-73.	3.3	37
8	Graphical Model Sketch. Lecture Notes in Computer Science, 2016, , 81-97.	1.0	2
9	Analyses of Cardinal Auctions. Algorithmica, 2015, 71, 889-903.	1.0	0
10	Yield Optimization of Display Advertising with Ad Exchange. Management Science, 2014, 60, 2886-2907.	2.4	96
11	Modeling collaboration in academia. , 2014, , .		1
12	Stochastic Budget Optimization in Internet Advertising. Algorithmica, 2013, 65, 634-661.	1.0	10
13	Socializing the h-index. Journal of Informetrics, 2013, 7, 718-721.	1.4	9
14	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
15	SocialCDN: Caching techniques for distributed social networks. , 2012, , .		18
16	Scienceography: The Study of How Science Is Written. Lecture Notes in Computer Science, 2012, , 379-391.	1.0	3
17	Node Classification in Social Networks. , 2011, , 115-148.		313
18	Social Butterfly: Social Caches for Distributed Social Networks. , 2011, , .		15

#	ARTICLE	IF	CITATIONS
19	Stochastic Models for Budget Optimization in Search-Based Advertising. <i>Algorithmica</i> , 2010, 58, 1022-1044.	1.0	32
20	Data management and mining in internet ad systems. <i>Proceedings of the VLDB Endowment</i> , 2010, 3, 1655-1656.	2.1	0
21	Compressing and indexing labeled trees, with applications. <i>Journal of the ACM</i> , 2009, 57, 1-33.	1.8	113
22	Stochastic Data Streams. <i>Lecture Notes in Computer Science</i> , 2009, , 55-55.	1.0	1
23	Ad Exchanges: Research Issues. <i>Lecture Notes in Computer Science</i> , 2009, , 1-12.	1.0	122
24	Online Ad Assignment with Free Disposal. <i>Lecture Notes in Computer Science</i> , 2009, , 374-385.	1.0	106
25	On Signatures for Communication Graphs. , 2008, , .		7
26	Finding hierarchical heavy hitters in streaming data. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2008, 1, 1-48.	2.5	62
27	Theory research at Google. <i>ACM SIGACT News</i> , 2008, 39, 10-28.	0.1	6
28	Internet Ad Auctions: Insights and Directions. <i>Lecture Notes in Computer Science</i> , 2008, , 14-23.	1.0	22
29	A Truthful Mechanism for Offline Ad Slot Scheduling. <i>Lecture Notes in Computer Science</i> , 2008, , 182-193.	1.0	23
30	Position Auctions with Bidder-Specific Minimum Prices. <i>Lecture Notes in Computer Science</i> , 2008, , 577-584.	1.0	19
31	Budget optimization in search-based advertising auctions. , 2007, , .		103
32	Sequential Change Detection on Data Streams. , 2007, , .		30
33	Bidding to the Top: VCG and Equilibria of Position-Based Auctions. <i>Lecture Notes in Computer Science</i> , 2007, , 15-28.	1.0	30
34	Streaming Algorithms for Data in Motion. <i>Lecture Notes in Computer Science</i> , 2007, , 294-304.	1.0	2
35	Fractal Modeling of IP Network Traffic at Streaming Speeds. , 2006, , .		1
36	What's Different: Distributed, Continuous Monitoring of Duplicate-Resilient Aggregates on Data Streams. , 2006, , .		41

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37	The Graham-Knowlton Problem Revisited. Theory of Computing Systems, 2006, 39, 399-412.	0.7	1
38	Estimating Entropy and Entropy Norm on Data Streams. Internet Mathematics, 2006, 3, 63-78.	0.7	7
39	Data Streams: Algorithms and Applications. Foundations and Trends in Theoretical Computer Science, 2005, 1, 117-236.	2.0	568
40	Domain-driven data synopses for dynamic quantiles. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 927-938.	4.0	8
41	An improved data stream summary: the count-min sketch and its applications. Journal of Algorithms, 2005, 55, 58-75.	0.9	1,326
42	Parallel scheduling problems in next generation wireless networks. Networks, 2005, 45, 9-22.	1.6	1
43	What's hot and what's not: tracking most frequent items dynamically. ACM Transactions on Database Systems, 2005, 30, 249-278.	1.5	269
44	What's new: finding significant differences in network data streams. IEEE/ACM Transactions on Networking, 2005, 13, 1219-1232.	2.6	123
45	Parallel two dimensional witness computation. Information and Computation, 2004, 188, 20-67.	0.5	0
46	Approximation Algorithms for Average Stretch Scheduling. Journal of Scheduling, 2004, 7, 195-222.	1.3	26
47	An Improved Data Stream Summary: The Count-Min Sketch and Its Applications. Lecture Notes in Computer Science, 2004, , 29-38.	1.0	107
48	Generalized substring selectivity estimation. Journal of Computer and System Sciences, 2003, 66, 98-132.	0.9	7
49	Two-dimensional substring indexing. Journal of Computer and System Sciences, 2003, 66, 763-774.	0.9	17
50	Approximation algorithms for MAX-MIN tiling. Journal of Algorithms, 2003, 47, 122-134.	0.9	7
51	Comparing data streams using hamming norms (how to zero in). IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 529-540.	4.0	68
52	One-pass wavelet decompositions of data streams. IEEE Transactions on Knowledge and Data Engineering, 2003, 15, 541-554.	4.0	97
53	Finding Hierarchical Heavy Hitters in Data Streams. , 2003, , 464-475.		121
54	AN ADVERSARIAL MODEL FOR DISTRIBUTED DYNAMIC LOAD BALANCING. Journal of Interconnection Networks, 2002, 03, 35-47.	0.6	5

#	ARTICLE	IF	CITATIONS
55	Near-optimal sparse fourier representations via sampling. , 2002, , .		156
56	Fast, small-space algorithms for approximate histogram maintenance. , 2002, , .		138
57	Exact Size of Binary Space Partitionings and Improved Rectangle Tiling Algorithms. SIAM Journal on Discrete Mathematics, 2002, 15, 252-267.	0.4	19
58	Comparing Data Streams Using Hamming Norms (How to Zero In). , 2002, , 335-345.		36
59	How to Summarize the Universe. , 2002, , 454-465.		81
60	Efficient Approximation Algorithms for Tiling and Packing Problems with Rectangles. Journal of Algorithms, 2001, 41, 443-470.	0.9	42
61	Optimal and approximate computation of summary statistics for range aggregates. , 2001, , .		42
62	Simple Optimal Parallel Multiple Pattern Matching. Journal of Algorithms, 2000, 34, 1-13.	0.9	2
63	Selectively estimation for Boolean queries. , 2000, , .		41
64	On Rectangular Partitionings in Two Dimensions: Algorithms, Complexity and Applications. Lecture Notes in Computer Science, 1999, , 236-256.	1.0	67
65	Tight Analyses of Two Local Load Balancing Algorithms. SIAM Journal on Computing, 1999, 29, 29-64.	0.8	45
66	First- and Second-Order Diffusive Methods for Rapid, Coarse, Distributed Load Balancing. Theory of Computing Systems, 1998, 31, 331-354.	0.7	114
67	A Constant Time Optimal Parallel Algorithm for Two-Dimensional Pattern Matching. SIAM Journal on Computing, 1998, 27, 668-681.	0.8	13
68	Scheduling on-demand broadcasts. , 1998, , .		184
69	Second-Order Methods for Distributed Approximate Single- and Multicommodity Flow. Lecture Notes in Computer Science, 1998, , 369-384.	1.0	5
70	Augmenting Suffix Trees, with Applications. Lecture Notes in Computer Science, 1998, , 67-78.	1.0	30
71	Detecting False Matches in String-Matching Algorithms. Algorithmica, 1997, 18, 512-520.	1.0	1
72	Optimal logarithmic time randomized suffix tree construction. Lecture Notes in Computer Science, 1996, , 550-561.	1.0	39

#	ARTICLE	IF	CITATIONS
73	Optimal parallel dictionary matching and compression (extended abstract). , 1995, , .		35
74	Highly efficient dictionary matching in parallel. , 1993, , .		14
75	Optimally fast parallel algorithms for preprocessing and pattern matching in one and two dimensions. , 0, , .		30
76	Fast mining of massive tabular data via approximate distance computations. , 0, , .		16
77	Efficient String Matching Algorithms for Combinatorial Universal Denoising. , 0, , .		0