

Michael Mitzenmacher

List of Publications by Year in descending order

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77
papers

10,160
citations

236925

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47
g-index

79
all docs

79
docs citations

79
times ranked

8267
citing authors

#	ARTICLE	IF	CITATIONS
1	The Supermarket Model with Known and Predicted Service Times. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	5.6	4
2	SNARF. Proceedings of the VLDB Endowment, 2022, 15, 1632-1644.	3.8	7
3	Algorithms with predictions. Communications of the ACM, 2022, 65, 33-35.	4.5	8
4	Queues with Small Advice. , 2021, , 1-12.		3
5	Algorithms with Predictions. , 2020, , 646-662.		18
6	Adaptive Cuckoo Filters. Journal of Experimental Algorithmics, 2020, 25, 1-20.	1.0	14
7	A digital fountain retrospective. Computer Communication Review, 2019, 49, 82-85.	1.8	6
8	EMOMA: Exact Match in One Memory Access. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 2120-2133.	5.7	13
9	An empirical study of the maximal and total information coefficients and leading measures of dependence. Annals of Applied Statistics, 2018, 12, .	1.1	43
10	Simple multi-party set reconciliation. Distributed Computing, 2018, 31, 441-453.	0.8	15
11	Metric Sublinear Algorithms via Linear Sampling. , 2018, , .		2
12	Adaptive Cuckoo Filters. , 2018, , 36-47.		23
13	Bloom Filters. , 2018, , 320-323.		14
14	2-3 Cuckoo Filters for Faster Triangle Listing and Set Intersection. , 2017, , .		15
15	Parallel Peeling Algorithms. ACM Transactions on Parallel Computing, 2016, 3, 1-27.	1.4	12
16	Models and Algorithms for Graph Watermarking. Lecture Notes in Computer Science, 2016, , 283-301.	1.3	7
17	Bloom Filters. , 2016, , 1-4.		0
18	Parallel peeling algorithms. , 2014, , .		7

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19	Efficient estimation for high similarities using odd sketches. , 2014, , .		43
20	Balanced allocations and double hashing. , 2014, , .		5
21	Cleaning up the record on the maximal information coefficient and equitability. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3362-3.	7.1	27
22	Wear Minimization for Cuckoo Hashing: How Not to Throw a Lot of Eggs into One Basket. Lecture Notes in Computer Science, 2014, , 162-173.	1.3	7
23	External-Memory Multimaps. Algorithmica, 2013, 67, 23-48.	1.3	0
24	Streaming Graph Computations with a Helpful Advisor. Algorithmica, 2013, 65, 409-442.	1.3	13
25	Title is missing!. Theory of Computing, 2013, 9, 897-945.	0.5	19
26	The complexity of object reconciliation, and open problems related to set difference and coding. , 2012, , .		8
27	Peeling arguments and double hashing. , 2012, , .		4
28	Continuous time channels with interference. , 2012, , .		0
29	Biff (Bloom filter) codes: Fast error correction for large data sets. , 2012, , .		23
30	Cache-Oblivious Dictionaries and Multimaps with Negligible Failure Probability. Lecture Notes in Computer Science, 2012, , 203-218.	1.3	5
31	On the zero-error capacity threshold for deletion channels. , 2011, , .		9
32	An Analysis of Random-Walk Cuckoo Hashing. SIAM Journal on Computing, 2011, 40, 291-308.	1.0	17
33	Detecting Novel Associations in Large Data Sets. Science, 2011, 334, 1518-1524.	12.6	2,252
34	Invertible bloom lookup tables. , 2011, , .		137
35	Privacy-Preserving Access of Outsourced Data via Oblivious RAM Simulation. Lecture Notes in Computer Science, 2011, , 576-587.	1.3	115
36	Cuckoo Hashing with Pages. Lecture Notes in Computer Science, 2011, , 615-627.	1.3	8

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37	An introduction to human-guided search. Xrds, 2010, 17, 34-35.	0.3	0
38	Human-guided search. Journal of Heuristics, 2010, 16, 289-310.	1.4	47
39	Codes for Deletion and Insertion Channels With Segmented Errors. IEEE Transactions on Information Theory, 2010, 56, 224-232.	2.4	31
40	Designing Floating Codes for Expected Performance. IEEE Transactions on Information Theory, 2010, 56, 968-978.	2.4	38
41	The Hiring Problem and Lake Wobegon Strategies. SIAM Journal on Computing, 2010, 39, 1233-1255.	1.0	11
42	More Robust Hashing: Cuckoo Hashing with a Stash. SIAM Journal on Computing, 2010, 39, 1543-1561.	1.0	96
43	The Power of One Move: Hashing Schemes for Hardware. IEEE/ACM Transactions on Networking, 2010, 18, 1752-1765.	3.8	30
44	Hash-Based Techniques for High-Speed Packet Processing. Computer Communications and Networks, 2010, , 181-218.	0.8	53
45	Real-time parallel hashing on the GPU. ACM Transactions on Graphics, 2009, 28, 1-9.	7.2	107
46	Bloom Filters. , 2009, , 252-255.		5
47	Less hashing, same performance: Building a better Bloom filter. Random Structures and Algorithms, 2008, 33, 187-218.	1.1	120
48	Capacity Bounds for Sticky Channels. IEEE Transactions on Information Theory, 2008, 54, 72-77.	2.4	42
49	On the performance of multiple choice hash tables with moves on deletes and inserts. , 2008, , .		5
50	Simple Summaries for Hashing With Choices. IEEE/ACM Transactions on Networking, 2008, 16, 218-231.	3.8	26
51	Distributed beamforming with binary signaling. , 2008, , .		19
52	A Survey of Results for Deletion Channels and Related Synchronization Channels. Lecture Notes in Computer Science, 2008, , 1-3.	1.3	9
53	Using the Power of Two Choices to Improve Bloom Filters. Internet Mathematics, 2007, 4, 17-33.	0.7	31
54	Capacity Upper Bounds for the Deletion Channel. , 2007, , .		50

#	ARTICLE	IF	CITATIONS
55	Codes for Deletion and Insertion Channels with Segmented Errors. , 2007, , .		9
56	Improved Lower Bounds for the Capacity of i.i.d. Deletion and Duplication Channels. IEEE Transactions on Information Theory, 2007, 53, 2693-2714.	2.4	65
57	On the Theory and Practice of Data Recovery with Multiple Versions. , 2006, , .		13
58	Polynomial Time Low-Density Parity-Check Codes With Rates Very Close to the Capacity of the q -ary Random Deletion Channel for Large q . IEEE Transactions on Information Theory, 2006, 52, 5496-5501.	2.4	15
59	Distance-Sensitive Bloom Filters. , 2006, , .		51
60	Beyond bloom filters. , 2006, , .		67
61	Beyond bloom filters. Computer Communication Review, 2006, 36, 315-326.	1.8	106
62	Less Hashing, Same Performance: Building a Better Bloom Filter. Lecture Notes in Computer Science, 2006, , 456-467.	1.3	103
63	Editorial: The Future of Power Law Research. Internet Mathematics, 2005, 2, 525-534.	0.7	53
64	Geometric generalizations of the power of two choices. , 2004, , .		44
65	Network Applications of Bloom Filters: A Survey. Internet Mathematics, 2004, 1, 485-509.	0.7	1,540
66	Dynamic Models for File Sizes and Double Pareto Distributions. Internet Mathematics, 2004, 1, 305-333.	0.7	96
67	A Brief History of Generative Models for Power Law and Lognormal Distributions. Internet Mathematics, 2004, 1, 226-251.	0.7	1,254
68	Informed content delivery across adaptive overlay networks. , 2002, , .		185
69	Informed content delivery across adaptive overlay networks. Computer Communication Review, 2002, 32, 47-60.	1.8	37
70	The HuGS platform. , 2002, , .		19
71	Completeness and robustness properties of min-wise independent permutations. Random Structures and Algorithms, 2001, 18, 18-30.	1.1	4
72	Towards More Complete Models of TCP Latency and Throughput. Journal of Supercomputing, 2001, 20, 137-160.	3.6	11

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73	Compressed bloom filters. , 2001, , .		127
74	Average-case analyses of first fit and random fit bin packing. Random Structures and Algorithms, 2000, 16, 240-259.	1.1	18
75	Min-Wise Independent Permutations. Journal of Computer and System Sciences, 2000, 60, 630-659.	1.2	540
76	Studying Balanced Allocations with Differential Equations. Combinatorics Probability and Computing, 1999, 8, 473-482.	1.3	50
77	A digital fountain approach to reliable distribution of bulk data. , 1998, , .		601