

Michael Mitzenmacher

List of Publications by Year in descending order

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77
papers

10,160
citations

236925

25
h-index

214800

47
g-index

79
all docs

79
docs citations

79
times ranked

8267
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting Novel Associations in Large Data Sets. <i>Science</i> , 2011, 334, 1518-1524.	12.6	2,252
2	Network Applications of Bloom Filters: A Survey. <i>Internet Mathematics</i> , 2004, 1, 485-509.	0.7	1,540
3	A Brief History of Generative Models for Power Law and Lognormal Distributions. <i>Internet Mathematics</i> , 2004, 1, 226-251.	0.7	1,254
4	A digital fountain approach to reliable distribution of bulk data. , 1998, , .		601
5	Min-Wise Independent Permutations. <i>Journal of Computer and System Sciences</i> , 2000, 60, 630-659.	1.2	540
6	Informed content delivery across adaptive overlay networks. , 2002, , .		185
7	Invertible bloom lookup tables. , 2011, , .		137
8	Compressed bloom filters. , 2001, , .		127
9	Less hashing, same performance: Building a better Bloom filter. <i>Random Structures and Algorithms</i> , 2008, 33, 187-218.	1.1	120
10	Privacy-Preserving Access of Outsourced Data via Oblivious RAM Simulation. <i>Lecture Notes in Computer Science</i> , 2011, , 576-587.	1.3	115
11	Real-time parallel hashing on the GPU. <i>ACM Transactions on Graphics</i> , 2009, 28, 1-9.	7.2	107
12	Beyond bloom filters. <i>Computer Communication Review</i> , 2006, 36, 315-326.	1.8	106
13	Less Hashing, Same Performance: Building a Better Bloom Filter. <i>Lecture Notes in Computer Science</i> , 2006, , 456-467.	1.3	103
14	Dynamic Models for File Sizes and Double Pareto Distributions. <i>Internet Mathematics</i> , 2004, 1, 305-333.	0.7	96
15	More Robust Hashing: Cuckoo Hashing with a Stash. <i>SIAM Journal on Computing</i> , 2010, 39, 1543-1561.	1.0	96
16	Beyond bloom filters. , 2006, , .		67
17	Improved Lower Bounds for the Capacity of i.i.d. Deletion and Duplication Channels. <i>IEEE Transactions on Information Theory</i> , 2007, 53, 2693-2714.	2.4	65
18	Editorial: The Future of Power Law Research. <i>Internet Mathematics</i> , 2005, 2, 525-534.	0.7	53

#	ARTICLE	IF	CITATIONS
19	Hash-Based Techniques for High-Speed Packet Processing. Computer Communications and Networks, 2010, , 181-218.	0.8	53
20	Distance-Sensitive Bloom Filters. , 2006, , .		51
21	Studying Balanced Allocations with Differential Equations. Combinatorics Probability and Computing, 1999, 8, 473-482.	1.3	50
22	Capacity Upper Bounds for the Deletion Channel. , 2007, , .		50
23	Human-guided search. Journal of Heuristics, 2010, 16, 289-310.	1.4	47
24	Geometric generalizations of the power of two choices. , 2004, , .		44
25	Efficient estimation for high similarities using odd sketches. , 2014, , .		43
26	An empirical study of the maximal and total information coefficients and leading measures of dependence. Annals of Applied Statistics, 2018, 12, .	1.1	43
27	Capacity Bounds for Sticky Channels. IEEE Transactions on Information Theory, 2008, 54, 72-77.	2.4	42
28	Designing Floating Codes for Expected Performance. IEEE Transactions on Information Theory, 2010, 56, 968-978.	2.4	38
29	Informed content delivery across adaptive overlay networks. Computer Communication Review, 2002, 32, 47-60.	1.8	37
30	Using the Power of Two Choices to Improve Bloom Filters. Internet Mathematics, 2007, 4, 17-33.	0.7	31
31	Codes for Deletion and Insertion Channels With Segmented Errors. IEEE Transactions on Information Theory, 2010, 56, 224-232.	2.4	31
32	The Power of One Move: Hashing Schemes for Hardware. IEEE/ACM Transactions on Networking, 2010, 18, 1752-1765.	3.8	30
33	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
34	Simple Summaries for Hashing With Choices. IEEE/ACM Transactions on Networking, 2008, 16, 218-231.	3.8	26
35	Biff (Bloom filter) codes: Fast error correction for large data sets. , 2012, , .		23
36	Adaptive Cuckoo Filters. , 2018, , 36-47.		23

#	ARTICLE	IF	CITATIONS
37	Distributed beamforming with binary signaling. , 2008, , .		19
38	Title is missing!. Theory of Computing, 2013, 9, 897-945.	0.5	19
39	The HuGS platform. , 2002, , .		19
40	Average-case analyses of first fit and random fit bin packing. Random Structures and Algorithms, 2000, 16, 240-259.	1.1	18
41	Algorithms with Predictions. , 2020, , 646-662.		18
42	An Analysis of Random-Walk Cuckoo Hashing. SIAM Journal on Computing, 2011, 40, 291-308.	1.0	17
43	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
44	Simple multi-party set reconciliation. Distributed Computing, 2018, 31, 441-453.	0.8	15
45	2-3 Cuckoo Filters for Faster Triangle Listing and Set Intersection. , 2017, , .		15
46	Bloom Filters. , 2018, , 320-323.		14
47	Adaptive Cuckoo Filters. Journal of Experimental Algorithmics, 2020, 25, 1-20.	1.0	14
48	On the Theory and Practice of Data Recovery with Multiple Versions. , 2006, , .		13
49	Streaming Graph Computations with a Helpful Advisor. Algorithmica, 2013, 65, 409-442.	1.3	13
50	EMOMA: Exact Match in One Memory Access. IEEE Transactions on Knowledge and Data Engineering, 2018, 30, 2120-2133.	5.7	13
51	Parallel Peeling Algorithms. ACM Transactions on Parallel Computing, 2016, 3, 1-27.	1.4	12
52	Towards More Complete Models of TCP Latency and Throughput. Journal of Supercomputing, 2001, 20, 137-160.	3.6	11
53	The Hiring Problem and Lake Wobegon Strategies. SIAM Journal on Computing, 2010, 39, 1233-1255.	1.0	11
54	Codes for Deletion and Insertion Channels with Segmented Errors. , 2007, , .		9

#	ARTICLE	IF	CITATIONS
55	On the zero-error capacity threshold for deletion channels. , 2011, , .		9
56	A Survey of Results for Deletion Channels and Related Synchronization Channels. Lecture Notes in Computer Science, 2008, , 1-3.	1.3	9
57	The complexity of object reconciliation, and open problems related to set difference and coding. , 2012, , .		8
58	Cuckoo Hashing with Pages. Lecture Notes in Computer Science, 2011, , 615-627.	1.3	8
59	Algorithms with predictions. Communications of the ACM, 2022, 65, 33-35.	4.5	8
60	Parallel peeling algorithms. , 2014, , .		7
61	Models and Algorithms for Graph Watermarking. Lecture Notes in Computer Science, 2016, , 283-301.	1.3	7
62	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
63	SNARF. Proceedings of the VLDB Endowment, 2022, 15, 1632-1644.	3.8	7
64	A digital fountain retrospective. Computer Communication Review, 2019, 49, 82-85.	1.8	6
65	On the performance of multiple choice hash tables with moves on deletes and inserts. , 2008, , .		5
66	Balanced allocations and double hashing. , 2014, , .		5
67	Cache-Oblivious Dictionaries and Multimaps with Negligible Failure Probability. Lecture Notes in Computer Science, 2012, , 203-218.	1.3	5
68	Bloom Filters. , 2009, , 252-255.		5
69	Completeness and robustness properties of min-wise independent permutations. Random Structures and Algorithms, 2001, 18, 18-30.	1.1	4
70	Peeling arguments and double hashing. , 2012, , .		4
71	The Supermarket Model with Known and Predicted Service Times. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	5.6	4
72	Queues with Small Advice. , 2021, , 1-12.		3

#	ARTICLE	IF	CITATIONS
73	Metric Sublinear Algorithms via Linear Sampling. , 2018, , .		2
74	An introduction to human-guided search. Xrds, 2010, 17, 34-35.	0.3	0
75	Continuous time channels with interference. , 2012, , .		0
76	External-Memory Multimaps. Algorithmica, 2013, 67, 23-48.	1.3	0
77	Bloom Filters. , 2016, , 1-4.		0