Dimitris Achlioptas

List of Publications by Year
in descending order

27 papers	2,593 citations	471509 17 h-index	713466 21 g-index
27 all docs	27 docs citations	27 times ranked	1811 citing authors

#	ARTICLE	IF	CITATIONS
1	Database-friendly random projections: Johnson-Lindenstrauss with binary coins. Journal of Computer and System Sciences, 2003, 66, 671-687.	1.2	943
2	Explosive Percolation in Random Networks. Science, 2009, 323, 1453-1455.	12.6	531
3	Rigorous location of phase transitions in hard optimization problems. Nature, 2005, 435, 759-764.	27.8	227
4	Random kâ€SAT: Two Moments Suffice to Cross a Sharp Threshold. SIAM Journal on Computing, 2006, 36, 740-762.	1.0	144
5	The threshold for random k-SAT is $2^klog 2-O(k)$. Journal of the American Mathematical Society, 2004, 17, 947-973.	3.9	141
6	The two possible values of the chromatic number of a random graph. Annals of Mathematics, 2005, 162, 1335-1351.	4.2	139
7	A Sharp Threshold fork-Colorability. Random Structures and Algorithms, 1999, 14, 63-70.	1.1	75
8	On the solutionâ€space geometry of random constraint satisfaction problems. Random Structures and Algorithms, 2011, 38, 251-268.	1.1	71
9	Random Constraint Satisfaction: A More Accurate Picture. Constraints, 2001, 6, 329-344.	0.7	52
10	Almost all graphs with average degree 4 are 3-colorable. Journal of Computer and System Sciences, 2003, 67, 441-471.	1.2	47
11	A sharp threshold in proof complexity yields lower bounds for satisfiability search. Journal of Computer and System Sciences, 2004, 68, 238-268.	1.2	47
12	Summary-based routing for content-based event distribution networks. Computer Communication Review, 2004, 34, 59-74.	1.8	29
13	Tight Lower Bounds for st-Connectivity on the NNJAG Model. SIAM Journal on Computing, 1999, 28, 2257-2284.	1.0	25
14	Random Formulas Have Frozen Variables. SIAM Journal on Computing, 2009, 39, 260-280.	1.0	24
15	Balance and Filtering in Structured Satisfiable Problems (Preliminary Report). Electronic Notes in Discrete Mathematics, 2001, 9, 2-18.	0.4	23
16	Two-coloring random hypergraphs. Random Structures and Algorithms, 2002, 20, 249-259.	1.1	23
17	The solution space geometry of random linear equations. Random Structures and Algorithms, 2015, 46, 197-231.	1.1	20
18	Random Walks That Find Perfect Objects and the Lovasz Local Lemma. , 2014, , .		9

#	Article	IF	Citations
19	Rapid mixing for lattice colourings with fewer colours. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P10012-P10012.	2.3	7
20	Solution clustering in random satisfiability. European Physical Journal B, 2008, 64, 395.	1.5	6
21	A Local Lemma for Focused Stochastic Algorithms. SIAM Journal on Computing, 2019, 48, 1583-1602.	1.0	4
22	The number of satisfying assignments of random 2â€SAT formulas. Random Structures and Algorithms, 2021, 58, 609-647.	1.1	4
23	Time-invariant LDPC convolutional codes. , 2017, , .		2
24	Special Section on Foundations of Computer Science. SIAM Journal on Computing, 2007, 37, 165-165.	1.0	0
25	Symmetric graph properties have independent edges. Information and Computation, 2018, 261, 446-463.	0.7	0
26	Model counting with error-correcting codes. Constraints, 2019, 24, 162-182.	0.7	0
27	Special Section on the Fiftieth Annual ACM Symposium on Theory of Computing (STOC 2018). SIAM Journal on Computing, 2020, 49, STOC18-i-STOC18-ii.	1.0	0