

Prasad Tetali

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,671
citations

279798

23
h-index

289244

40
g-index

52
all docs

52
docs citations

52
times ranked

789
citing authors

#	ARTICLE	IF	CITATIONS
1	Random walks and the effective resistance of networks. <i>Journal of Theoretical Probability</i> , 1991, 4, 101-109.	0.8	245
2	Collisions Among Random Walks on a Graph. <i>SIAM Journal on Discrete Mathematics</i> , 1993, 6, 363-374.	0.8	123
3	Approximating Min Sum Set Cover. <i>Algorithmica</i> , 2004, 40, 219-234.	1.3	114
4	Analyzing Glauber dynamics by comparison of Markov chains. <i>Journal of Mathematical Physics</i> , 2000, 41, 1598-1615.	1.1	107
5	Modified Logarithmic Sobolev Inequalities in Discrete Settings. <i>Journal of Theoretical Probability</i> , 2006, 19, 289-336.	0.8	107
6	Simple Markov-chain algorithms for generating bipartite graphs and tournaments. <i>Random Structures and Algorithms</i> , 1999, 14, 293-308.	1.1	96
7	Information Inequalities for Joint Distributions, With Interpretations and Applications. <i>IEEE Transactions on Information Theory</i> , 2010, 56, 2699-2713.	2.4	85
8	Kantorovich duality for general transport costs and applications. <i>Journal of Functional Analysis</i> , 2017, 273, 3327-3405.	1.4	59
9	Elementary bounds on Poincaré and log-Sobolev constants for decomposable Markov chains. <i>Annals of Applied Probability</i> , 2004, 14, 1741.	1.3	58
10	Representations of integers as the sum of k terms. <i>Random Structures and Algorithms</i> , 1990, 1, 245-261.	1.1	45
11	Ramsey Games Against a One-Armed Bandit. <i>Combinatorics Probability and Computing</i> , 2003, 12, 515-545.	1.3	34
12	On smoothed analysis in dense graphs and formulas. <i>Random Structures and Algorithms</i> , 2006, 29, 180-193.	1.1	33
13	On weighted graph homomorphisms. <i>DIMACS Series in Discrete Mathematics and Theoretical Computer Science</i> , 2004, , 97-104.	0.0	33
14	Tight bounds for mixing of the Swendsen-Wang algorithm at the Potts transition point. <i>Probability Theory and Related Fields</i> , 2012, 152, 509-557.	1.8	32
15	Discrete Curvature and Abelian Groups. <i>Canadian Journal of Mathematics</i> , 2016, 68, 655-674.	0.6	32
16	Entropy and set cardinality inequalities for partition-determined functions. <i>Random Structures and Algorithms</i> , 2012, 40, 399-424.	1.1	30
17	Displacement convexity of entropy and related inequalities on graphs. <i>Probability Theory and Related Fields</i> , 2014, 160, 47-94.	1.8	30
18	A note on expected hitting times for birth and death chains. <i>Statistics and Probability Letters</i> , 1996, 30, 119-125.	0.7	29

#	ARTICLE	IF	CITATIONS
19	Distributed Random Walks. Journal of the ACM, 2013, 60, 1-31.	2.2	29
20	On the chromatic number of set systems. Random Structures and Algorithms, 2001, 19, 87-98.	1.1	28
21	An Extension of Foster's Network Theorem. Combinatorics Probability and Computing, 1994, 3, 421-427.	1.3	26
22	Isoperimetric Inequalities for Cartesian Products of Graphs. Combinatorics Probability and Computing, 1998, 7, 141-148.	1.3	25
23	Improved mixing condition on the grid for counting and sampling independent sets. Probability Theory and Related Fields, 2013, 156, 75-99.	1.8	25
24	Two-coloring random hypergraphs. Random Structures and Algorithms, 2002, 20, 249-259.	1.1	23
25	Characterization of a class of weak transport-entropy inequalities on the line. Annales De L'institut Henri Poincare (B) Probability and Statistics, 2018, 54, .	1.1	22
26	The Number of Linear Extensions of the Boolean Lattice. Order, 2003, 20, 333-345.	0.5	20
27	Slow mixing of Glauber dynamics for the hard-core model on regular bipartite graphs. Random Structures and Algorithms, 2006, 28, 427-443.	1.1	20
28	Discrete Ricci Curvature bounds for Bernoulli-Laplace and Random Transposition models. Annales De La Faculté Des Sciences De Toulouse, 2015, 24, 781-800.	0.3	18
29	Matchings and independent sets of a fixed size in regular graphs. Journal of Combinatorial Theory - Series A, 2009, 116, 1219-1227.	0.8	16
30	Efficient sampling and counting algorithms for the Potts model on $\hat{\mu}$ at all temperatures. , 2020, , .		15
31	Approximate tensorization of entropy at high temperature. Annales De La Faculté Des Sciences De Toulouse, 2015, 24, 691-716.	0.3	15
32	Modified log-sobolev inequalities, mixing and hypercontractivity. , 2003, , .		12
33	Design of On-Line Algorithms Using Hitting Times. SIAM Journal on Computing, 1999, 28, 1232-1246.	1.0	10
34	Information-theoretic inequalities in additive combinatorics. , 2010, , .		10
35	Two-coloring random hypergraphs. Random Structures and Algorithms, 2002, 20, 249-259.	1.1	9
36	Near Optimal Bounds for Collision in Pollard Rho for Discrete Log. , 2007, , .		7

#	ARTICLE	IF	CITATIONS
37	On the Widom-Rowlinson Occupancy Fraction in Regular Graphs. <i>Combinatorics Probability and Computing</i> , 2017, 26, 183-194.	1.3	7
38	Sandwich bounds for joint entropy. , 2007, , .		6
39	Simple Markov-chain algorithms for generating bipartite graphs and tournaments. , 1999, 14, 293.		6
40	Convergence to global equilibrium for Fokker-Planck equations on a graph and Talagrand-type inequalities. <i>Journal of Differential Equations</i> , 2016, 261, 2552-2583.	2.2	5
41	Phase Coexistence for the Hard-Core Model on \mathbb{Z}^2 . <i>Combinatorics Probability and Computing</i> , 2019, 28, 1-22.	1.3	4
42	The Widom-Rowlinson model, the hard-core model and the extremality of the complete graph. <i>European Journal of Combinatorics</i> , 2017, 62, 70-76.	0.8	3
43	Sidon Sets with Small Gaps. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1995, , 103-109.	0.5	3
44	On randomizing two derandomized greedy algorithms. <i>Electronic Journal of Combinatorics</i> , 2010, 1, 265-283.	0.1	3
45	Sampling and Counting 3-Orientations of Planar Triangulations. <i>SIAM Journal on Discrete Mathematics</i> , 2016, 30, 801-831.	0.8	2
46	Markov Chain-Based Sampling for Exploring RNA Secondary Structure under the Nearest Neighbor Thermodynamic Model and Extended Applications. <i>Mathematical and Computational Applications</i> , 2020, 25, 67.	1.3	1
47	On the number of independent sets in uniform, regular, linear hypergraphs. <i>European Journal of Combinatorics</i> , 2022, 99, 103401.	0.8	1
48	On the bipartiteness constant and expansion of Cayley graphs. <i>European Journal of Combinatorics</i> , 2022, 102, 103481.	0.8	1
49	Algebraic Connectivity Under Site Percolation in Finite Weighted Graphs. <i>IEEE Transactions on Network Science and Engineering</i> , 2018, 5, 86-91.	6.4	0
50	Volume Growth, Curvature, and Buser-Type Inequalities in Graphs. <i>International Mathematics Research Notices</i> , 2019, , .	1.0	0
51	Near Optimal Bounds for Collision in Pollard Rho for Discrete Log. , 2007, , .		0