

Leslie Ann Goldberg

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

1,602
citations

304602

22
h-index

345118

36
g-index

82
all docs

82
docs citations

82
times ranked

598
citing authors

#	ARTICLE	IF	CITATIONS
1	The complexity of approximating the complex-valued Potts model. Computational Complexity, 2022, 31, 1.	0.2	4
2	Fast mixing via polymers for random graphs with unbounded degree. Information and Computation, 2022, 285, 104894.	0.5	4
3	Approximating partition functions of bounded-degree Boolean counting Constraint Satisfaction Problems. Journal of Computer and System Sciences, 2021, 115, 187-213.	0.9	2
4	Increasing efficacy of contact-tracing applications by user referrals and stricter quarantining. PLoS ONE, 2021, 16, e0250435.	1.1	3
5	The Complexity of Approximating the Matching Polynomial in the Complex Plane. ACM Transactions on Computation Theory, 2021, 13, 1-37.	0.4	6
6	Faster exponential-time algorithms for approximately counting independent sets. Theoretical Computer Science, 2021, 892, 48-84.	0.5	1
7	Counting Homomorphisms to K_4 -Minor-Free Graphs, Modulo 2. SIAM Journal on Discrete Mathematics, 2021, 35, 2749-2814.	0.4	0
8	Counting Solutions to Random CNF Formulas. SIAM Journal on Computing, 2021, 50, 1701-1738.	0.8	2
9	Phase transitions of the Moran process and algorithmic consequences. Random Structures and Algorithms, 2020, 56, 597-647.	0.6	5
10	Sampling in Uniqueness from the Potts and Random-Cluster Models on Random Regular Graphs. SIAM Journal on Discrete Mathematics, 2020, 34, 742-793.	0.4	10
11	Boolean approximate counting CSPs with weak conservativity, and implications for ferromagnetic two-spin. Journal of Computer and System Sciences, 2020, 109, 95-125.	0.9	2
12	Inapproximability of the Independent Set Polynomial in the Complex Plane. SIAM Journal on Computing, 2020, 49, STOC18-395-STOC18-448.	0.8	7
13	Holant Clones and the Approximability of Conservative Holant Problems. ACM Transactions on Algorithms, 2020, 16, 1-55.	0.9	6
14	Fully Online Matching. Journal of the ACM, 2020, 67, 1-25.	1.8	15
15	A Fixed-Parameter Perspective on #BIS. Algorithmica, 2019, 81, 3844-3864.	1.0	5
16	Approximating Pairwise Correlations in the Ising Model. ACM Transactions on Computation Theory, 2019, 11, 1-20.	0.4	3
17	Asymptotically optimal amplifiers for the Moran process. Theoretical Computer Science, 2019, 758, 73-93.	0.5	12
18	The Complexity of Counting Surjective Homomorphisms and Compactions. SIAM Journal on Discrete Mathematics, 2019, 33, 1006-1043.	0.4	1

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19	Approximation via Correlation Decay When Strong Spatial Mixing Fails. <i>SIAM Journal on Computing</i> , 2019, 48, 279-349.	0.8	12
20	Inapproximability of the independent set polynomial in the complex plane. , 2018, , .		6
21	Amplifiers for the Moran Process. <i>Journal of the ACM</i> , 2017, 64, 1-90.	1.8	15
22	The Complexity of Approximating complex-valued Ising and Tutte partition functions. <i>Computational Complexity</i> , 2017, 26, 765-833.	0.2	31
23	Functional clones and expressibility of partition functions. <i>Theoretical Computer Science</i> , 2017, 687, 11-39.	0.5	3
24	Absorption time of the Moran process. <i>Random Structures and Algorithms</i> , 2016, 49, 137-159.	0.6	13
25	Approximately Counting H -Colorings is $\#BIS$ -Hard. <i>SIAM Journal on Computing</i> , 2016, 45, 680-711.	0.8	11
26	$\#BIS$ -hardness for 2-spin systems on bipartite bounded degree graphs in the tree non-uniqueness region. <i>Journal of Computer and System Sciences</i> , 2016, 82, 690-711.	0.9	22
27	Counting 4×4 matrix partitions of graphs. <i>Discrete Applied Mathematics</i> , 2016, 213, 76-92.	0.5	0
28	The complexity of approximately counting in 2-spin systems on k -uniform bounded-degree hypergraphs. <i>Information and Computation</i> , 2016, 251, 36-66.	0.5	10
29	Approximately counting locally-optimal structures. <i>Journal of Computer and System Sciences</i> , 2016, 82, 1144-1160.	0.9	3
30	Counting List Matrix Partitions of Graphs. <i>SIAM Journal on Computing</i> , 2015, 44, 1089-1118.	0.8	0
31	A complexity classification of spin systems with an external field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13161-13166.	3.3	15
32	The complexity of approximating conservative counting CSPs. <i>Journal of Computer and System Sciences</i> , 2015, 81, 311-329.	0.9	7
33	Approximating the partition function of planar two-state spin systems. <i>Journal of Computer and System Sciences</i> , 2015, 81, 330-358.	0.9	2
34	The Complexity of Computing the Sign of the Tutte Polynomial. <i>SIAM Journal on Computing</i> , 2014, 43, 1921-1952.	0.8	19
35	Approximating Fixation Probabilities in the Generalized Moran Process. <i>Algorithmica</i> , 2014, 69, 78-91.	1.0	23
36	Adaptive Drift Analysis. <i>Algorithmica</i> , 2013, 65, 224-250.	1.0	80

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37	Approximating the Tutte polynomial of a binary matroid and other related combinatorial polynomials. <i>Journal of Computer and System Sciences</i> , 2013, 79, 68-78.	0.9	7
38	The expressibility of functions on the boolean domain, with applications to counting CSPs. <i>Journal of the ACM</i> , 2013, 60, 1-36.	1.8	20
39	On the fixation probability of superstars. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20130193.	1.0	15
40	Approximating the partition function of the ferromagnetic Potts model. <i>Journal of the ACM</i> , 2012, 59, 1-31.	1.8	46
41	Inapproximability of the Tutte polynomial of a planar graph. <i>Computational Complexity</i> , 2012, 21, 605-642.	0.2	12
42	The complexity of approximating bounded-degree Boolean #CSP. <i>Information and Computation</i> , 2012, 220-221, 1-14.	0.5	8
43	The complexity of approximately counting stable roommate assignments. <i>Journal of Computer and System Sciences</i> , 2012, 78, 1579-1605.	0.9	6
44	The complexity of weighted and unweighted #CSP. <i>Journal of Computer and System Sciences</i> , 2012, 78, 681-688.	0.9	26
45	A Complexity Dichotomy For Hypergraph Partition Functions. <i>Computational Complexity</i> , 2010, 19, 605-633.	0.2	4
46	An approximation trichotomy for Boolean #CSP. <i>Journal of Computer and System Sciences</i> , 2010, 76, 267-277.	0.9	44
47	The mixing time of Glauber dynamics for coloring regular trees. <i>Random Structures and Algorithms</i> , 2010, 36, 464-476.	0.6	3
48	A Complexity Dichotomy for Partition Functions with Mixed Signs. <i>SIAM Journal on Computing</i> , 2010, 39, 3336-3402.	0.8	72
49	A Tractable and Expressive Class of Marginal Contribution Nets and Its Applications. <i>Mathematical Logic Quarterly</i> , 2009, 55, 362-376.	0.2	23
50	On the computational complexity of weighted voting games. <i>Annals of Mathematics and Artificial Intelligence</i> , 2009, 56, 109-131.	0.9	47
51	The Complexity of Weighted Boolean #CSP. <i>SIAM Journal on Computing</i> , 2009, 38, 1970-1986.	0.8	65
52	Inapproximability of the Tutte polynomial. <i>Information and Computation</i> , 2008, 206, 908-929.	0.5	49
53	Dobrushin Conditions and Systematic Scan. <i>Combinatorics Probability and Computing</i> , 2008, 17, 761-779.	0.8	13
54	The Complexity of Ferromagnetic Ising with Local Fields. <i>Combinatorics Probability and Computing</i> , 2007, 16, 43.	0.8	44

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55	Distributed Selfish Load Balancing. SIAM Journal on Computing, 2007, 37, 1163-1181.	0.8	41
56	Rapidly Mixing Markov Chains for Sampling Contingency Tables with a Constant Number of Rows. SIAM Journal on Computing, 2006, 36, 247-278.	0.8	22
57	Systematic scan for sampling colorings. Annals of Applied Probability, 2006, 16, 185.	0.6	20
58	Utilitarian resource assignment. Journal of Discrete Algorithms, 2006, 4, 567-587.	0.7	12
59	Improved Mixing Bounds for the Anti-Ferromagnetic Potts Model on \mathbb{Z}^2 . LMS Journal of Computation and Mathematics, 2006, 9, 1-20.	0.9	9
60	Strong Spatial Mixing with Fewer Colors for Lattice Graphs. SIAM Journal on Computing, 2005, 35, 486-517.	0.8	62
61	A Bound on the Capacity of Backoff and Acknowledgment-Based Protocols. SIAM Journal on Computing, 2004, 33, 313-331.	0.8	32
62	Counting and sampling H-colourings. Information and Computation, 2004, 189, 1-16.	0.5	16
63	The Relative Complexity of Approximate Counting Problems. Algorithmica, 2004, 38, 471-500.	1.0	126
64	Random sampling of 3-colorings in \mathbb{Z}^2 . Random Structures and Algorithms, 2004, 24, 279-302.	0.6	18
65	The Complexity of Choosing an H-Coloring (Nearly) Uniformly at Random. SIAM Journal on Computing, 2004, 33, 416-432.	0.8	13
66	The computational complexity of two-state spin systems. Random Structures and Algorithms, 2003, 23, 133-154.	0.6	50
67	The Natural Work-Stealing Algorithm is Stable. SIAM Journal on Computing, 2003, 32, 1260-1279.	0.8	42
68	The "Burnside Process" Converges Slowly. Combinatorics Probability and Computing, 2002, 11, 21-34.	0.8	4
69	Convergence of the Iterated Prisoner's Dilemma Game. Combinatorics Probability and Computing, 2002, 11, 135-147.	0.8	14
70	An Extension of Path Coupling and Its Application to the Glauber Dynamics for Graph Colorings. SIAM Journal on Computing, 2001, 30, 1962-1975.	0.8	26
71	Evolutionary Trees Can be Learned in Polynomial Time in the Two-State General Markov Model. SIAM Journal on Computing, 2001, 31, 375-397.	0.8	26
72	Better Approximation Guarantees for Job-Shop Scheduling. SIAM Journal on Discrete Mathematics, 2001, 14, 67-92.	0.4	39

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73	The Complexity of Gene Placement. <i>Journal of Algorithms</i> , 2001, 41, 225-243.	0.9	3
74	Counting Unlabelled Subtrees of a Tree is #P-complete. <i>LMS Journal of Computation and Mathematics</i> , 2000, 3, 117-124.	0.9	8
75	Learning Foraging Thresholds for Lizards: an Analysis of a Simple Learning Algorithm. <i>Journal of Theoretical Biology</i> , 1999, 197, 361-369.	0.8	3
76	Analysis of Practical Backoff Protocols for Contention Resolution with Multiple Servers. <i>Journal of Computer and System Sciences</i> , 1999, 58, 232-258.	0.9	30
77	An Optical Simulation of Shared Memory. <i>SIAM Journal on Computing</i> , 1999, 28, 1829-1847.	0.8	15
78	Constructing Computer Virus Phylogenies. <i>Journal of Algorithms</i> , 1998, 26, 188-208.	0.9	39
79	Doubly Logarithmic Communication Algorithms for Optical-Communication Parallel Computers. <i>SIAM Journal on Computing</i> , 1997, 26, 1100-1119.	0.8	29
80	Minimizing phylogenetic number to find good evolutionary trees. <i>Discrete Applied Mathematics</i> , 1996, 71, 111-136.	0.5	22
81	Listing graphs that satisfy first-order sentences. <i>Journal of Computer and System Sciences</i> , 1994, 49, 408-424.	0.9	2
82	Efficient algorithms for listing unlabeled graphs. <i>Journal of Algorithms</i> , 1992, 13, 128-143.	0.9	15