List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The complexity of approximating the complex-valued Potts model. Computational Complexity, 2022, 31, 1. | 0.3 | 4 |
| 2 | Fast mixing via polymers for random graphs with unbounded degree. Information and Computation, 2022, 285, 104894. | 0.7 | 4 |
| 3 | Approximating partition functions of bounded-degree Boolean counting Constraint Satisfaction Problems. Journal of Computer and System Sciences, 2021, 115, 187-213. | 1.2 | 2 |
| 4 | Increasing efficacy of contact-tracing applications by user referrals and stricter quarantining. PLoS ONE, 2021, 16, e0250435. | 2.5 | 3 |
| 5 | The Complexity of Approximating the Matching Polynomial in the Complex Plane. ACM Transactions on Computation Theory, 2021, 13, 1-37. | 0.7 | 6 |
| 6 | Faster exponential-time algorithms for approximately counting independent sets. Theoretical Computer Science, 2021, 892, 48-84. | 0.9 | 1 |
| 7 | Counting Homomorphisms to \$K_4\$-Minor-Free Graphs, Modulo 2. SIAM Journal on Discrete Mathematics, 2021, 35, 2749-2814. | 0.8 | 0 |
| 8 | Counting Solutions to Random CNF Formulas. SIAM Journal on Computing, 2021, 50, 1701-1738. | 1.0 | 2 |
| 9 | Phase transitions of the Moran process and algorithmic consequences. Random Structures and Algorithms, 2020, 56, 597-647. | 1.1 | 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. | 0.8 | 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. | 1.2 | 2 |
| 12 | Inapproximability of the Independent Set Polynomial in the Complex Plane. SIAM Journal on Computing, 2020, 49, STOC18-395-STOC18-448. | 1.0 | 7 |
| 13 | Holant Clones and the Approximability of Conservative Holant Problems. ACM Transactions on Algorithms, 2020, 16, 1-55. | 1.0 | 6 |
| 14 | Fully Online Matching. Journal of the ACM, 2020, 67, 1-25. | 2.2 | 15 |
| 15 | A Fixed-Parameter Perspective on #BIS. Algorithmica, 2019, 81, 3844-3864. | 1.3 | 5 |
| 16 | Approximating Pairwise Correlations in the Ising Model. ACM Transactions on Computation Theory, 2019, 11, 1-20. | 0.7 | 3 |
| 17 | Asymptotically optimal amplifiers for the Moran process. Theoretical Computer Science, 2019, 758, 73-93. | 0.9 | 12 |
| 18 | The Complexity of Counting Surjective Homomorphisms and Compactions. SIAM Journal on Discrete Mathematics, 2019, 33, 1006-1043. | 0.8 | 1 |

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|----|--|-----|-----------|
| 19 | Approximation via Correlation Decay When Strong Spatial Mixing Fails. SIAM Journal on Computing, 2019, 48, 279-349. | 1.0 | 12 |
| 20 | Inapproximability of the independent set polynomial in the complex plane. , 2018, , . | | 6 |
| 21 | Amplifiers for the Moran Process. Journal of the ACM, 2017, 64, 1-90. | 2.2 | 15 |
| 22 | The Complexity of Approximating complex-valued Ising and Tutte partition functions. Computational Complexity, 2017, 26, 765-833. | 0.3 | 31 |
| 23 | Functional clones and expressibility of partition functions. Theoretical Computer Science, 2017, 687, 11-39. | 0.9 | 3 |
| 24 | Absorption time of the Moran process. Random Structures and Algorithms, 2016, 49, 137-159. | 1.1 | 13 |
| 25 | Approximately Counting \$H\$-Colorings is \$#mathrm{BIS}\$-Hard. SIAM Journal on Computing, 2016, 45, 680-711. | 1.0 | 11 |
| 26 | #BIS-hardness for 2-spin systems on bipartite bounded degree graphs in the tree non-uniqueness region. Journal of Computer and System Sciences, 2016, 82, 690-711. | 1.2 | 22 |
| 27 | Counting 4×4 matrix partitions of graphs. Discrete Applied Mathematics, 2016, 213, 76-92. | 0.9 | Ο |
| 28 | The complexity of approximately counting in 2-spin systems on k-uniform bounded-degree hypergraphs. Information and Computation, 2016, 251, 36-66. | 0.7 | 10 |
| 29 | Approximately counting locally-optimal structures. Journal of Computer and System Sciences, 2016, 82, 1144-1160. | 1.2 | 3 |
| 30 | Counting List Matrix Partitions of Graphs. SIAM Journal on Computing, 2015, 44, 1089-1118. | 1.0 | 0 |
| 31 | A complexity classification of spin systems with an external field. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13161-13166. | 7.1 | 15 |
| 32 | The complexity of approximating conservative counting CSPs. Journal of Computer and System Sciences, 2015, 81, 311-329. | 1.2 | 7 |
| 33 | Approximating the partition function of planar two-state spin systems. Journal of Computer and System Sciences, 2015, 81, 330-358. | 1.2 | 2 |
| 34 | The Complexity of Computing the Sign of the Tutte Polynomial. SIAM Journal on Computing, 2014, 43, 1921-1952. | 1.0 | 19 |
| 35 | Approximating Fixation Probabilities in the Generalized Moran Process. Algorithmica, 2014, 69, 78-91. | 1.3 | 23 |
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Adaptive Drift Analysis. Algorithmica, 2013, 65, 224-250.

1.3 80

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|----|--|-----|-----------|
| 37 | Approximating the Tutte polynomial of a binary matroid and other related combinatorial polynomials. Journal of Computer and System Sciences, 2013, 79, 68-78. | 1.2 | 7 |
| 38 | The expressibility of functions on the boolean domain, with applications to counting CSPs. Journal of the ACM, 2013, 60, 1-36. | 2.2 | 20 |
| 39 | On the fixation probability of superstars. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130193. | 2.1 | 15 |
| 40 | Approximating the partition function of the ferromagnetic Potts model. Journal of the ACM, 2012, 59, 1-31. | 2.2 | 46 |
| 41 | Inapproximability of the Tutte polynomial of a planar graph. Computational Complexity, 2012, 21, 605-642. | 0.3 | 12 |
| 42 | The complexity of approximating bounded-degree Boolean #CSP. Information and Computation, 2012, 220-221, 1-14. | 0.7 | 8 |
| 43 | The complexity of approximately counting stable roommate assignments. Journal of Computer and System Sciences, 2012, 78, 1579-1605. | 1.2 | 6 |
| 44 | The complexity of weighted and unweighted #CSP. Journal of Computer and System Sciences, 2012, 78, 681-688. | 1.2 | 26 |
| 45 | A Complexity Dichotomy For Hypergraph Partition Functions. Computational Complexity, 2010, 19, 605-633. | 0.3 | 4 |
| 46 | An approximation trichotomy for Boolean #CSP. Journal of Computer and System Sciences, 2010, 76, 267-277. | 1.2 | 44 |
| 47 | The mixing time of Glauber dynamics for coloring regular trees. Random Structures and Algorithms, 2010, 36, 464-476. | 1.1 | 3 |
| 48 | A Complexity Dichotomy for Partition Functions with Mixed Signs. SIAM Journal on Computing, 2010, 39, 3336-3402. | 1.0 | 72 |
| 49 | A Tractable and Expressive Class of Marginal Contribution Nets and Its Applications. Mathematical Logic Quarterly, 2009, 55, 362-376. | 0.2 | 23 |
| 50 | On the computational complexity of weighted voting games. Annals of Mathematics and Artificial Intelligence, 2009, 56, 109-131. | 1.3 | 47 |
| 51 | The Complexity of Weighted Boolean #CSP. SIAM Journal on Computing, 2009, 38, 1970-1986. | 1.0 | 65 |
| 52 | Inapproximability of the Tutte polynomial. Information and Computation, 2008, 206, 908-929. | 0.7 | 49 |
| 53 | Dobrushin Conditions and Systematic Scan. Combinatorics Probability and Computing, 2008, 17, 761-779. | 1.3 | 13 |
| 54 | The Complexity of Ferromagnetic Ising with Local Fields. Combinatorics Probability and Computing, 2007, 16, 43. | 1.3 | 44 |

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|----|--|-----|-----------|
| 55 | Distributed Selfish Load Balancing. SIAM Journal on Computing, 2007, 37, 1163-1181. | 1.0 | 41 |
| 56 | Rapidly Mixing Markov Chains for Sampling Contingency Tables with a Constant Number of Rows. SIAM Journal on Computing, 2006, 36, 247-278. | 1.0 | 22 |
| 57 | Systematic scan for sampling colorings. Annals of Applied Probability, 2006, 16, 185. | 1.3 | 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 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. | 1.0 | 62 |
| 61 | A Bound on the Capacity of Backoff and Acknowledgment-Based Protocols. SIAM Journal on Computing, 2004, 33, 313-331. | 1.0 | 32 |
| 62 | Counting and sampling H-colourings. Information and Computation, 2004, 189, 1-16. | 0.7 | 16 |
| 63 | The Relative Complexity of Approximate Counting Problems. Algorithmica, 2004, 38, 471-500. | 1.3 | 126 |
| 64 | Random sampling of 3-colorings in â"2. Random Structures and Algorithms, 2004, 24, 279-302. | 1.1 | 18 |
| 65 | The Complexity of Choosing an H-Coloring (Nearly) Uniformly at Random. SIAM Journal on Computing, 2004, 33, 416-432. | 1.0 | 13 |
| 66 | The computational complexity of two-state spin systems. Random Structures and Algorithms, 2003, 23, 133-154. | 1.1 | 50 |
| 67 | The Natural Work-Stealing Algorithm is Stable. SIAM Journal on Computing, 2003, 32, 1260-1279. | 1.0 | 42 |
| 68 | The â€~Burnside Process' Converges Slowly. Combinatorics Probability and Computing, 2002, 11, 21-34. | 1.3 | 4 |
| 69 | Convergence of the Iterated Prisoner's Dilemma Game. Combinatorics Probability and Computing, 2002, 11, 135-147. | 1.3 | 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. | 1.0 | 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. | 1.0 | 26 |
| 72 | Better Approximation Guarantees for Job-Shop Scheduling. SIAM Journal on Discrete Mathematics, 2001, 14, 67-92. | 0.8 | 39 |

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|----|---|-----|-----------|
| 73 | The Complexity of Gene Placement. Journal of Algorithms, 2001, 41, 225-243. | 0.9 | 3 |
| 74 | Counting Unlabelled Subtrees of a Tree is #P-complete. LMS Journal of Computation and Mathematics, 2000, 3, 117-124. | 0.9 | 8 |
| 75 | Learning Foraging Thresholds for Lizards: an Analysis of a Simple Learning Algorithm. Journal of Theoretical Biology, 1999, 197, 361-369. | 1.7 | 3 |
| 76 | Analysis of Practical Backoff Protocols for Contention Resolution with Multiple Servers. Journal of Computer and System Sciences, 1999, 58, 232-258. | 1.2 | 30 |
| 77 | An Optical Simulation of Shared Memory. SIAM Journal on Computing, 1999, 28, 1829-1847. | 1.0 | 15 |
| 78 | Constructing Computer Virus Phylogenies. Journal of Algorithms, 1998, 26, 188-208. | 0.9 | 39 |
| 79 | Doubly Logarithmic Communication Algorithms for Optical-Communication Parallel Computers. SIAM Journal on Computing, 1997, 26, 1100-1119. | 1.0 | 29 |
| 80 | Minimizing phylogenetic number to find good evolutionary trees. Discrete Applied Mathematics, 1996, 71, 111-136. | 0.9 | 22 |
| 81 | Listing graphs that satisfy first-order sentences. Journal of Computer and System Sciences, 1994, 49, 408-424. | 1.2 | 2 |
| 82 | Efficient algorithms for listing unlabeled graphs. Journal of Algorithms, 1992, 13, 128-143. | 0.9 | 15 |