

Bhaskar DasGupta

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

900
citations

516561

16
h-index

501076

28
g-index

70
all docs

70
docs citations

70
times ranked

651
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstructing sibling relationships in wild populations. <i>Bioinformatics</i> , 2007, 23, i49-i56.	1.8	78
2	Algorithmic and complexity results for decompositions of biological networks into monotone subsystems. <i>BioSystems</i> , 2007, 90, 161-178.	0.9	71
3	Multi-phase Algorithms for Throughput Maximization for Real-Time Scheduling. <i>Journal of Combinatorial Optimization</i> , 2000, 4, 307-323.	0.8	52
4	A Novel Method for Signal Transduction Network Inference from Indirect Experimental Evidence. <i>Journal of Computational Biology</i> , 2007, 14, 927-949.	0.8	52
5	Topological implications of negative curvature for biological and social networks. <i>Physical Review E</i> , 2014, 89, 032811.	0.8	45
6	Efficient Approximation Algorithms for Tiling and Packing Problems with Rectangles. <i>Journal of Algorithms</i> , 2001, 41, 443-470.	0.9	42
7	A direct variational method for planning monotonically optimal paths for redundant manipulators in constrained workspaces. <i>Robotics and Autonomous Systems</i> , 2013, 61, 209-220.	3.0	40
8	NET-SYNTHESIS: a software for synthesis, inference and simplification of signal transduction networks. <i>Bioinformatics</i> , 2008, 24, 293-295.	1.8	39
9	A variational approach to path planning for hyper-redundant manipulators. <i>Robotics and Autonomous Systems</i> , 2009, 57, 194-201.	3.0	37
10	Tight approximability results for test set problems in bioinformatics. <i>Journal of Computer and System Sciences</i> , 2005, 71, 145-162.	0.9	35
11	Randomized approximation algorithms for set multicover problems with applications to reverse engineering of protein and gene networks. <i>Discrete Applied Mathematics</i> , 2007, 155, 733-749.	0.5	35
12	On the complexity of Newman's community finding approach for biological and social networks. <i>Journal of Computer and System Sciences</i> , 2013, 79, 50-67.	0.9	29
13	Computationally efficient measure of topological redundancy of biological and social networks. <i>Physical Review E</i> , 2011, 84, 036117.	0.8	26
14	Inferring (Biological) Signal Transduction Networks via Transitive Reductions of Directed Graphs. <i>Algorithmica</i> , 2008, 51, 129-159.	1.0	20
15	Exact Size of Binary Space Partitionings and Improved Rectangle Tiling Algorithms. <i>SIAM Journal on Discrete Mathematics</i> , 2002, 15, 252-267.	0.4	19
16	The Rectangle Enclosure and Point-Dominance Problems Revisited. <i>International Journal of Computational Geometry and Applications</i> , 1997, 07, 437-455.	0.3	17
17	Highly scalable algorithms for robust string barcoding. <i>International Journal of Bioinformatics Research and Applications</i> , 2005, 1, 145.	0.1	16
18	Analog versus Discrete Neural Networks. <i>Neural Computation</i> , 1996, 8, 805-818.	1.3	14

#	ARTICLE	IF	CITATIONS
19	Algorithmic and Complexity Results for Decompositions of Biological Networks into Monotone Subsystems. Lecture Notes in Computer Science, 2006, , 253-264.	1.0	13
20	Capacitated clustering problem in computational biology: Combinatorial and statistical approach for sibling reconstruction. Computers and Operations Research, 2012, 39, 609-619.	2.4	13
21	COMBINATORIAL RECONSTRUCTION OF HALF-SIBLING GROUPS FROM MICROSATELLITE DATA. Journal of Bioinformatics and Computational Biology, 2010, 08, 337-356.	0.3	12
22	On analyzing and evaluating privacy measures for social networks under active attack. Information Sciences, 2019, 473, 87-100.	4.0	12
23	Fast Optimal Genome Tiling with Applications to Microarray Design and Homology Search. Journal of Computational Biology, 2004, 11, 766-785.	0.8	11
24	Stochastic Budget Optimization in Internet Advertising. Algorithmica, 2013, 65, 634-661.	1.0	10
25	Algorithmic Perspectives of Network Transitive Reduction Problems and their Applications to Synthesis and Analysis of Biological Networks. Biology, 2014, 3, 1-21.	1.3	10
26	Effect of Gromov-Hyperbolicity Parameter on Cuts and Expansions in Graphs and Some Algorithmic Implications. Algorithmica, 2018, 80, 772-800.	1.0	10
27	ERROR TOLERANT SIBSHIP RECONSTRUCTION IN WILD POPULATIONS. , 2008, , .		9
28	Approximating Transitive Reductions for Directed Networks. Lecture Notes in Computer Science, 2009, , 74-85.	1.0	8
29	Approximation algorithms for MAX-MIN tiling. Journal of Algorithms, 2003, 47, 122-134.	0.9	7
30	Algorithmic Issues in Reverse Engineering of Protein and Gene Networks via the Modular Response Analysis Method. Annals of the New York Academy of Sciences, 2007, 1115, 132-141.	1.8	7
31	The inverse protein folding problem on 2D and 3D lattices. Discrete Applied Mathematics, 2007, 155, 719-732.	0.5	7
32	New Optimization Model and Algorithm for Sibling Reconstruction from Genetic Markers. INFORMS Journal on Computing, 2010, 22, 180-194.	1.0	7
33	Spatio-Temporal Matching for Urban Transportation Applications. ACM Transactions on Spatial Algorithms and Systems, 2017, 3, 1-39.	1.1	7
34	Detecting network anomalies using Forman-Ricci curvature and a case study for human brain networks. Scientific Reports, 2021, 11, 8121.	1.6	7
35	Inapproximability results for the lateral gene transfer problem. Journal of Combinatorial Optimization, 2006, 11, 387-405.	0.8	6
36	On approximating four covering and packing problems. Journal of Computer and System Sciences, 2009, 75, 287-302.	0.9	6

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37	On optimal approximability results for computing the strong metric dimension. Discrete Applied Mathematics, 2017, 221, 18-24.	0.5	6
38	Approximating the online set multicover problems via randomized winnowing. Theoretical Computer Science, 2008, 393, 54-71.	0.5	5
39	Some Perspectives on Network Modeling in Therapeutic Target Prediction. Biomedical Engineering and Computational Biology, 2013, 5, BECB.S10793.	0.8	5
40	Column-Generation Framework of Nonlinear Similarity Model for Reconstructing Sibling Groups. INFORMS Journal on Computing, 2015, 27, 35-47.	1.0	5
41	Inference of Signal Transduction Networks from Double Causal Evidence. Methods in Molecular Biology, 2010, 673, 239-251.	0.4	5
42	On the Computational Complexity of Measuring Global Stability of Banking Networks. Algorithmica, 2014, 70, 595-647.	1.0	4
43	On the computational complexities of three problems related to a privacy measure for large networks under active attack. Theoretical Computer Science, 2019, 775, 53-67.	0.5	4
44	A survey of some tensor analysis techniques for biological systems. Quantitative Biology, 2019, 7, 266-277.	0.3	4
45	Why Did the Shape of Your Network Change? (On Detecting Network Anomalies via Non-local) Tj ETQq1 1 0.784314 rgBT /Oylock	1.0	4
46	On communication protocols that compute almost privately. Theoretical Computer Science, 2012, 457, 45-58.	0.5	3
47	On a connection between small set expansions and modularity clustering. Information Processing Letters, 2014, 114, 349-352.	0.4	3
48	On theoretical and empirical algorithmic analysis of the efficiency gap measure in partisan gerrymandering. Journal of Combinatorial Optimization, 2020, 40, 512-546.	0.8	3
49	AN IMPLICIT COVER PROBLEM IN WILD POPULATION STUDY. Discrete Mathematics, Algorithms and Applications, 2010, 02, 21-31.	0.4	2
50	PRIMER SELECTION METHODS FOR DETECTION OF GENOMIC INVERSIONS AND DELETIONS VIA PAMP. , 2007, , .		2
51	An integrated optimization framework for inferring two generation kinships and parental genotypes from microsatellite samples. , 2012, , .		1
52	A Review of and Some Results for Ollivier's Ricci Network Curvature. Mathematics, 2020, 8, 1416.	1.1	1
53	Optimal polygon placement by translation1. International Journal of Computer Mathematics, 1994, 52, 139-148.	1.0	0
54	Efficient Combinatorial Algorithms for DNA Sequence Processing. , 2007, , 223-239.		0

#	ARTICLE	IF	CITATIONS
55	Topological implications of negative curvature for biological networks. , 2018, , .		0
56	A Review of Several Privacy Violation Measures for Large Networks under Active Attacks. , 2020, , .		0
57	Models and Algorithmic Tools for Computational Processes in Cellular Biology: Recent Developments and Future Directions. Lecture Notes in Computer Science, 2012, , 84-86.	1.0	0
58	Computational Complexities of Optimization Problems Related to Model-Based Clustering of Networks. , 2014, , 97-113.		0
59	Steiner Problem in Multistage Computer Networks. Network Optimization Problems: Algorithms, Applications and Complexity, 1993, , 387-401.	0.1	0