

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	Detecting network anomalies using Forman's Ricci curvature and a case study for human brain networks. Scientific Reports, 2021, 11, 8121.	1.6	7
2	A Review of Several Privacy Violation Measures for Large Networks under Active Attacks. , 2020, , .		0
3	A Review of and Some Results for Ollivier's Ricci Network Curvature. Mathematics, 2020, 8, 1416.	1.1	1
4	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
5	Why Did the Shape of Your Network Change? (On Detecting Network Anomalies via Non-local) Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	1.0	4
6	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
7	A survey of some tensor analysis techniques for biological systems. Quantitative Biology, 2019, 7, 266-277.	0.3	4
8	On analyzing and evaluating privacy measures for social networks under active attack. Information Sciences, 2019, 473, 87-100.	4.0	12
9	Effect of Gromov-Hyperbolicity Parameter on Cuts and Expansions in Graphs and Some Algorithmic Implications. Algorithmica, 2018, 80, 772-800.	1.0	10
10	Topological implications of negative curvature for biological networks. , 2018, , .		0
11	On optimal approximability results for computing the strong metric dimension. Discrete Applied Mathematics, 2017, 221, 18-24.	0.5	6
12	Spatio-Temporal Matching for Urban Transportation Applications. ACM Transactions on Spatial Algorithms and Systems, 2017, 3, 1-39.	1.1	7
13	Column-Generation Framework of Nonlinear Similarity Model for Reconstructing Sibling Groups. INFORMS Journal on Computing, 2015, 27, 35-47.	1.0	5
14	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
15	Topological implications of negative curvature for biological and social networks. Physical Review E, 2014, 89, 032811.	0.8	45
16	On the Computational Complexity of Measuring Global Stability of Banking Networks. Algorithmica, 2014, 70, 595-647.	1.0	4
17	On a connection between small set expansions and modularity clustering. Information Processing Letters, 2014, 114, 349-352.	0.4	3
18	Computational Complexities of Optimization Problems Related to Model-Based Clustering of Networks. , 2014, , 97-113.		0

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19	Stochastic Budget Optimization in Internet Advertising. <i>Algorithmica</i> , 2013, 65, 634-661.	1.0	10
20	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
21	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
22	Some Perspectives on Network Modeling in Therapeutic Target Prediction. <i>Biomedical Engineering and Computational Biology</i> , 2013, 5, BECB.S10793.	0.8	5
23	An integrated optimization framework for inferring two generation kinships and parental genotypes from microsatellite samples. , 2012, , .		1
24	On communication protocols that compute almost privately. <i>Theoretical Computer Science</i> , 2012, 457, 45-58.	0.5	3
25	Capacitated clustering problem in computational biology: Combinatorial and statistical approach for sibling reconstruction. <i>Computers and Operations Research</i> , 2012, 39, 609-619.	2.4	13
26	Models and Algorithmic Tools for Computational Processes in Cellular Biology: Recent Developments and Future Directions. <i>Lecture Notes in Computer Science</i> , 2012, , 84-86.	1.0	0
27	Computationally efficient measure of topological redundancy of biological and social networks. <i>Physical Review E</i> , 2011, 84, 036117.	0.8	26
28	AN IMPLICIT COVER PROBLEM IN WILD POPULATION STUDY. <i>Discrete Mathematics, Algorithms and Applications</i> , 2010, 02, 21-31.	0.4	2
29	COMBINATORIAL RECONSTRUCTION OF HALF-SIBLING GROUPS FROM MICROSATELLITE DATA. <i>Journal of Bioinformatics and Computational Biology</i> , 2010, 08, 337-356.	0.3	12
30	New Optimization Model and Algorithm for Sibling Reconstruction from Genetic Markers. <i>INFORMS Journal on Computing</i> , 2010, 22, 180-194.	1.0	7
31	Inference of Signal Transduction Networks from Double Causal Evidence. <i>Methods in Molecular Biology</i> , 2010, 673, 239-251.	0.4	5
32	A variational approach to path planning for hyper-redundant manipulators. <i>Robotics and Autonomous Systems</i> , 2009, 57, 194-201.	3.0	37
33	On approximating four covering and packing problems. <i>Journal of Computer and System Sciences</i> , 2009, 75, 287-302.	0.9	6
34	Approximating Transitive Reductions for Directed Networks. <i>Lecture Notes in Computer Science</i> , 2009, , 74-85.	1.0	8
35	Inferring (Biological) Signal Transduction Networks via Transitive Reductions of Directed Graphs. <i>Algorithmica</i> , 2008, 51, 129-159.	1.0	20
36	Approximating the online set multicover problems via randomized winnowing. <i>Theoretical Computer Science</i> , 2008, 393, 54-71.	0.5	5

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37	NET-SYNTHESIS: a software for synthesis, inference and simplification of signal transduction networks. <i>Bioinformatics</i> , 2008, 24, 293-295.	1.8	39
38	ERROR TOLERANT SIBSHIP RECONSTRUCTION IN WILD POPULATIONS. , 2008, , .		9
39	Efficient Combinatorial Algorithms for DNA Sequence Processing. , 2007, , 223-239.		0
40	Reconstructing sibling relationships in wild populations. <i>Bioinformatics</i> , 2007, 23, i49-i56.	1.8	78
41	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
42	Algorithmic and complexity results for decompositions of biological networks into monotone subsystems. <i>BioSystems</i> , 2007, 90, 161-178.	0.9	71
43	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
44	Algorithmic Issues in Reverse Engineering of Protein and Gene Networks via the Modular Response Analysis Method. <i>Annals of the New York Academy of Sciences</i> , 2007, 1115, 132-141.	1.8	7
45	The inverse protein folding problem on 2D and 3D lattices. <i>Discrete Applied Mathematics</i> , 2007, 155, 719-732.	0.5	7
46	PRIMER SELECTION METHODS FOR DETECTION OF GENOMIC INVERSIONS AND DELETIONS VIA PAMP. , 2007, , .		2
47	Algorithmic and Complexity Results for Decompositions of Biological Networks into Monotone Subsystems. <i>Lecture Notes in Computer Science</i> , 2006, , 253-264.	1.0	13
48	Inapproximability results for the lateral gene transfer problem. <i>Journal of Combinatorial Optimization</i> , 2006, 11, 387-405.	0.8	6
49	Highly scalable algorithms for robust string barcoding. <i>International Journal of Bioinformatics Research and Applications</i> , 2005, 1, 145.	0.1	16
50	Tight approximability results for test set problems in bioinformatics. <i>Journal of Computer and System Sciences</i> , 2005, 71, 145-162.	0.9	35
51	Fast Optimal Genome Tiling with Applications to Microarray Design and Homology Search. <i>Journal of Computational Biology</i> , 2004, 11, 766-785.	0.8	11
52	Approximation algorithms for MAX-MIN tiling. <i>Journal of Algorithms</i> , 2003, 47, 122-134.	0.9	7
53	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
54	Efficient Approximation Algorithms for Tiling and Packing Problems with Rectangles. <i>Journal of Algorithms</i> , 2001, 41, 443-470.	0.9	42

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55	Multi-phase Algorithms for Throughput Maximization for Real-Time Scheduling. Journal of Combinatorial Optimization, 2000, 4, 307-323.	0.8	52
56	The Rectangle Enclosure and Point-Dominance Problems Revisited. International Journal of Computational Geometry and Applications, 1997, 07, 437-455.	0.3	17
57	Analog versus Discrete Neural Networks. Neural Computation, 1996, 8, 805-818.	1.3	14
58	Optimal polygon placement by translation1. International Journal of Computer Mathematics, 1994, 52, 139-148.	1.0	0
59	Steiner Problem in Multistage Computer Networks. Network Optimization Problems: Algorithms, Applications and Complexity, 1993, , 387-401.	0.1	0