Mohsen Bayati

List of Publications by Year
in descending order

32 papers	2,198 citations	471509 17 h-index	610901 24 g-index
34 all docs	34 docs citations	34 times ranked	1434 citing authors

#	Article	IF	Citations
1	The Dynamics of Message Passing on Dense Graphs, with Applications to Compressed Sensing. IEEE Transactions on Information Theory, 2011, 57, 764-785.	2.4	692
2	The LASSO Risk for Gaussian Matrices. IEEE Transactions on Information Theory, 2012, 58, 1997-2017.	2.4	160
3	Max-Product for Maximum Weight Matching: Convergence, Correctness, and LP Duality. IEEE Transactions on Information Theory, 2008, 54, 1241-1251.	2.4	149
4	Online Decision Making with High-Dimensional Covariates. Operations Research, 2020, 68, 276-294.	1.9	148
5	Algorithms for Large, Sparse Network Alignment Problems. , 2009, , .		106
6	Matrix Completion Methods for Causal Panel Data Models. Journal of the American Statistical Association, 2021, 116, 1716-1730.	3.1	105
7	Universality in polytope phase transitions and message passing algorithms. Annals of Applied Probability, 2015, 25, .	1.3	104
8	Data-Driven Decisions for Reducing Readmissions for Heart Failure: General Methodology and Case Study. PLoS ONE, 2014, 9, e109264.	2.5	94
9	Accurate Emergency Department Wait Time Prediction. Manufacturing and Service Operations Management, 2016, 18, 141-156.	3.7	90
10	A Sequential Algorithm for Generating Random Graphs. Algorithmica, 2010, 58, 860-910.	1.3	80
11	Mostly Exploration-Free Algorithms for Contextual Bandits. Management Science, 2021, 67, 1329-1349.	4.1	66
12	Message-Passing Algorithms for Sparse Network Alignment. ACM Transactions on Knowledge Discovery From Data, 2013, 7, 1-31.	3.5	62
13	Combinatorial approach to the interpolation method and scaling limits in sparse random graphs. Annals of Probability, 2013, 41, .	1.8	53
14	Evidence of Upcoding in Pay-for-Performance Programs. Management Science, 2019, 65, 1042-1060.	4.1	42
15	Belief Propagation for Weighted b-Matchings on Arbitrary Graphs and its Relation to Linear Programs with Integer Solutions. SIAM Journal on Discrete Mathematics, 2011, 25, 989-1011.	0.8	40
16	Bargaining dynamics in exchange networks. Journal of Economic Theory, 2015, 156, 417-454.	1.1	30
17	Universality in polytope phase transitions and iterative algorithms. , 2012, , .		25
18	On the exactness of the cavity method for weighted b-matchings on arbitrary graphs and its relation to linear programs. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, L06001.	2.3	24

#	Article	IF	Citations
19	Ensemble Methods for Causal Effects in Panel Data Settings. AEA Papers and Proceedings American Economic Association, 2019, 109, 65-70.	1.2	24
20	The dynamics of message passing on dense graphs, with applications to compressed sensing. , 2010, , .		21
21	Data Uncertainty in Markov Chains: Application to Cost-Effectiveness Analyses of Medical Innovations. Operations Research, 2018, 66, 697-715.	1.9	17
22	A rigorous analysis of the cavity equations for the minimum spanning tree. Journal of Mathematical Physics, 2008, 49, 125206.	1.1	14
23	PatientFlowNet: A Deep Learning Approach to Patient Flow Prediction in Emergency Departments. IEEE Access, 2021, 9, 45552-45561.	4.2	12
24	Generating Random Graphs with Large Girth. , 2009, , .		10
25	Statistical analysis of a low cost method for multiple disease prediction. Statistical Methods in Medical Research, 2018, 27, 2312-2328.	1.5	9
26	Frustration With Technology and its Relation to Emotional Exhaustion Among Health Care Workers: Cross-sectional Observational Study. Journal of Medical Internet Research, 2021, 23, e26817.	4.3	8
27	Active Postmarketing Drug Surveillance for Multiple Adverse Events. Operations Research, 2015, 63, 1528-1546.	1.9	6
28	Low-Acuity Patients Delay High-Acuity Patients in the ED. SSRN Electronic Journal, 0, , .	0.4	3
29	Generating random Tanner-graphs with large girth. , 2009, , .		2
30	A Low-Cost Method for Multiple Disease Prediction. AMIA ... Annual Symposium proceedings, 2015, 2015, 329-38.	0.2	1
31	Generating Random Networks Without Short Cycles. SSRN Electronic Journal, 0, , .	0.4	0
32	Generating Random Networks Without Short Cycles. Operations Research, 2018, 66, 1227-1246.	1.9	0