Austin R Benson

List of Publications by Citations

34 papers	1,319 citations	16 h-index	36 g-index
38 ext. papers	1,889 ext. citations	5 avg, IF	5.47 L-index

#	Paper	IF	Citations
34	Higher-order organization of complex networks. *Science*, **2016**, 353, 163-6	33.3	429
33	Motifs in Temporal Networks **2017**,		186
32	Local Higher-Order Graph Clustering. *KDD: Proceedings*, **2017**, 2017, 555-564	6.8	167
31	Simplicial closure and higher-order link prediction. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E11221-E11230	11.5	104
30	Random Walks on Simplicial Complexes and the Normalized Hodge 1-Laplacian. *SIAM Review*, **2020**, 62, 353-391	7.4	43
29	Tensor Spectral Clustering for Partitioning Higher-order Network Structures **2015**, 2015, 118-126	0.8	41
28	Modeling User Consumption Sequences **2016**,		39
27	The Spacey Random Walk: A Stochastic Process for Higher-Order Data. *SIAM Review*, **2017**, 59, 321-345	7.4	35
26	Higher-order clustering in networks. *Physical Review E*, **2018**, 97, 052306	2.4	34
25	Three Hypergraph Eigenvector Centralities. *SIAM Journal on Mathematics of Data Science*, **2019**, 1, 293-312	3.2	28
24	Direct QR factorizations for tall-and-skinny matrices in MapReduce architectures **2013**,		27
23	Silent error detection in numerical time-stepping schemes. *International Journal of High Performance Computing Applications*, **2015**, 29, 403-421	1.8	22
22	The Local Closure Coefficient **2019**,		17
21	Sequences of Sets **2018**,		17
20	Sampling Methods for Counting Temporal Motifs **2019**,		16
19	Improving the Numerical Stability of Fast Matrix Multiplication. *SIAM Journal on Matrix Analysis and Applications*, **2016**, 37, 1382-1418	1.5	16
18	A framework for practical parallel fast matrix multiplication. *ACM SIGPLAN Notices*, **2015**, 50, 42-53	0.2	15

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17	Generative hypergraph clustering: From blockmodels to modularity. *Science Advances*, **2021**, 7,	14.3	11
16	Learning multifractal structure in large networks **2014**,		10
15	Clustering in graphs and hypergraphs with categorical edge labels **2020**,		10
14	On the Relevance of Irrelevant Alternatives **2016**,		9
13	Unsupervised learning of dislocation motion. *Acta Materialia*, **2019**, 181, 510-518	8.4	7
12	A Parallel Directional Fast Multipole Method. *SIAM Journal of Scientific Computing*, **2014**, 36, C335-C352	2.6	6
11	Neighborhood and PageRank methods for pairwise link prediction. *Social Network Analysis and Mining*, **2020**, 10, 1	2.2	6
10	Measuring directed triadic closure with closure coefficients. *Network Science*, **2020**, 8, 551-573	2.9	5
9	Pairwise link prediction **2019**,		5
8	Computing Tensor Z-Eigenvectors with Dynamical Systems. *SIAM Journal on Matrix Analysis and Applications*, **2019**, 40, 1311-1324	1.5	5
7	The Gamma-Ray Imaging Framework. *IEEE Transactions on Nuclear Science*, **2013**, 60, 528-532	1.7	2
6	Modelling and analysis of tagging networks in Stack Exchange communities. *Journal of Complex Networks*, **2021**, 8,	1.7	2
5	Automated Grain Yield Behavior Classification. *Jom*, **2019**, 71, 3513-3520	2.1	1
4	Network Interpolation. *SIAM Journal on Mathematics of Data Science*, **2020**, 2, 505-528	3.1	1
3	Planted hitting set recovery in hypergraphs. *Journal of Physics Complexity*, **2021**, 2, 035004	1.8	1
2	A Unifying Generative Model for Graph Learning Algorithms: Label Propagation, Graph Convolutions, and Combinations. *SIAM Journal on Mathematics of Data Science*, **2022**, 4, 100-125	3.1	0
1	Communication-Efficient Distributed Eigenspace Estimation. *SIAM Journal on Mathematics of Data Science*, **2021**, 3, 1067-1092	3.1	0