David S Bindel

List of Publications by Year
in descending order

38 papers	1,990 citations	566801 15 h-index
40 all docs	40 docs citations	40 times ranked

476904 29 g-index
1325 citing authors

#	Article	IF	Citations
1	OceanStore. ACM SIGPLAN Notices, 2000, 35, 190-201.	0.2	756
2	An algebraic approach to practical and scalable overlay network monitoring. , 2004, , .		141
3	Elastic PMLs for resonator anchor loss simulation. International Journal for Numerical Methods in Engineering, 2005, 64, 789-818.	1.5	138
4	How bad is forming your own opinion?. Games and Economic Behavior, 2015, 92, 248-265.	0.4	87
5	Uncovering the Small Community Structure in Large Networks. , 2015, , .		85
6	On computing givens rotations reliably and efficiently. ACM Transactions on Mathematical Software, 2002, 28, 206-238.	1.6	72
7	OceanStore. Operating Systems Review (ACM), 2000, 34, 190-201.	1.5	62
8	Local Spectral Clustering for Overlapping Community Detection. ACM Transactions on Knowledge Discovery From Data, 2018, 12, 1-27.	2.5	54
9	Detecting Overlapping Communities from Local Spectral Subspaces. , 2015, , .		50
10	Tomography-based overlay network monitoring. , 2003, , .		47
11	How Bad is Forming Your Own Opinion?. , 2011, , .		46
12	Fast iterative graph computation with block updates. Proceedings of the VLDB Endowment, 2013, 6, 2014-2025.	2.1	42
13	Towards Unbiased End-to-End Network Diagnosis. IEEE/ACM Transactions on Networking, 2009, 17, 1724-1737.	2.6	36
14	Algebra-Based Scalable Overlay Network Monitoring: Algorithms, Evaluation, and Applications. IEEE/ACM Transactions on Networking, 2007, 15, 1084-1097.	2.6	33
15	An algebraic approach to practical and scalable overlay network monitoring. Computer Communication Review, 2004, 34, 55-66.	1.5	32
16	Making time-stepped applications tick in the cloud. , 2011, , .		28
17	Edge-Weighted Personalized PageRank. , 2015, , .		28
18	Numerical computation of bifurcations in large equilibrium systems in matlab. Journal of Computational and Applied Mathematics, 2014, 261, 232-248.	1.1	25

#	Article	IF	Citations
19	Krylov Subspace Approximation for Local Community Detection in Large Networks. ACM Transactions on Knowledge Discovery From Data, 2019, 13, 1-30.	2.5	25
20	Continuation of Invariant Subspaces in Large Bifurcation Problems. SIAM Journal of Scientific Computing, 2008, 30, 637-656.	1.3	23
21	Towards unbiased end-to-end network diagnosis. Computer Communication Review, 2006, 36, 219-230.	1.5	21
22	Configuring Distributed Computations Using Response Surfaces. , 2015, , .		20
23	Localization Theorems for Nonlinear Eigenvalue Problems. SIAM Journal on Matrix Analysis and Applications, 2013, 34, 1728-1749.	0.7	18
24	Topology optimization in micromechanical resonator design. Optimization and Engineering, 2012, 13, 271-292.	1.3	16
25	Locally-biased spectral approximation for community detection. Knowledge-Based Systems, 2019, 164, 459-472.	4.0	15
26	Local Lanczos Spectral Approximation for Community Detection. Lecture Notes in Computer Science, 2017, , 651-667.	1.0	14
27	A Subspace Pursuit Method to Infer Refractivity in the Marine Atmospheric Boundary Layer. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5606-5617.	2.7	10
28	Localization Theorems for Nonlinear Eigenvalue Problems. SIAM Review, 2015, 57, 585-607.	4.2	7
29	FLiER: Practical Topology Update Detection Using Sparse PMUs. IEEE Transactions on Power Systems, 2017, 32, 4222-4232.	4.6	7
30	Bifurcation Analysis of Large Equilibrium Systems in Matlab. Lecture Notes in Computer Science, 2005, , 50-57.	1.0	5
31	Effects of imperfections on solid-wave gyroscope dynamics. , 2013, , .		5
32	Temperature Sensitivity and Shape Optimization of Solid-State Wave Gyroscopes. IEEE Sensors Journal, 2016, 16, 6213-6221.	2.4	5
33	Prospectus for the Next LAPACK and ScaLAPACK Libraries. , 2006, , 11-23.		5
34	Early termination strategies with asynchronous parallel optimization in application to automatic calibration of groundwater PDE models. Environmental Modelling and Software, 2022, 147, 105237.	1.9	5
35	Symmetry of Bound and Antibound States in the Semiclassical Limit. Letters in Mathematical Physics, 2007, 81, 107-117.	0.5	4
36	Towards deterministic network diagnosis. , 2006, , .		3

#	Article	IF	Citations
37	Global stochastic optimization of stellarator coil configurations. Journal of Plasma Physics, 2022, 88, .	0.7	3
38	Towards deterministic network diagnosis. Performance Evaluation Review, 2006, 34, 387-388.	0.4	2