

David S Bindel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

1,040
citations

18
h-index

32
g-index

40
ext. papers

1,295
ext. citations

2.7
avg, IF

4.18
L-index

#	Paper	IF	Citations
39	Early termination strategies with asynchronous parallel optimization in application to automatic calibration of groundwater PDE models. <i>Environmental Modelling and Software</i> , 2022 , 147, 105237	5.2	1
38	Krylov Subspace Approximation for Local Community Detection in Large Networks. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2019 , 13, 1-30	4	12
37	A Subspace Pursuit Method to Infer Refractivity in the Marine Atmospheric Boundary Layer. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 5606-5617	8.1	5
36	Locally-biased spectral approximation for community detection. <i>Knowledge-Based Systems</i> , 2019 , 164, 459-472	7.3	10
35	Local Spectral Clustering for Overlapping Community Detection. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2018 , 12, 1-27	4	37
34	FLiER: Practical Topology Update Detection Using Sparse PMUs. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4222-4232	7	6
33	Local Lanczos Spectral Approximation for Community Detection. <i>Lecture Notes in Computer Science</i> , 2017 , 651-667	0.9	12
32	Temperature Sensitivity and Shape Optimization of Solid-State Wave Gyroscopes. <i>IEEE Sensors Journal</i> , 2016 , 16, 6213-6221	4	2
31	Localization Theorems for Nonlinear Eigenvalue Problems. <i>SIAM Review</i> , 2015 , 57, 585-607	7.4	4
30	Edge-Weighted Personalized PageRank 2015 ,		18
29	Configuring Distributed Computations Using Response Surfaces 2015 ,		17
28	Uncovering the Small Community Structure in Large Networks 2015 ,		56
27	How bad is forming your own opinion?. <i>Games and Economic Behavior</i> , 2015 , 92, 248-265	1.1	42
26	Detecting Overlapping Communities from Local Spectral Subspaces 2015 ,		33
25	Numerical computation of bifurcations in large equilibrium systems in matlab. <i>Journal of Computational and Applied Mathematics</i> , 2014 , 261, 232-248	2.4	20
24	Localization Theorems for Nonlinear Eigenvalue Problems. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2013 , 34, 1728-1749	1.5	14
23	Effects of imperfections on solid-wave gyroscope dynamics 2013 ,		3

22	Fast iterative graph computation with block updates. <i>Proceedings of the VLDB Endowment</i> , 2013 , 6, 2014-2025	35
21	Topology optimization in micromechanical resonator design. <i>Optimization and Engineering</i> , 2012 , 13, 271-292	2.1 13
20	How Bad is Forming Your Own Opinion? 2011 ,	31
19	Making time-stepped applications tick in the cloud 2011 ,	19
18	Towards Unbiased End-to-End Network Diagnosis. <i>IEEE/ACM Transactions on Networking</i> , 2009 , 17, 1724-1737	29
17	Continuation of Invariant Subspaces in Large Bifurcation Problems. <i>SIAM Journal of Scientific Computing</i> , 2008 , 30, 637-656	2.6 13
16	Algebra-Based Scalable Overlay Network Monitoring: Algorithms, Evaluation, and Applications. <i>IEEE/ACM Transactions on Networking</i> , 2007 , 15, 1084-1097	3.8 28
15	Symmetry of Bound and Antibound States in the Semiclassical Limit. <i>Letters in Mathematical Physics</i> , 2007 , 81, 107-117	1.2 2
14	Towards unbiased end-to-end network diagnosis. <i>Computer Communication Review</i> , 2006 , 36, 219-230	1.4 8
13	Towards deterministic network diagnosis 2006 ,	3
12	Towards deterministic network diagnosis. <i>Performance Evaluation Review</i> , 2006 , 34, 387-388	0.4 1
11	Prospectus for the Next LAPACK and ScaLAPACK Libraries 2006 , 11-23	3
10	Model Reduction for RF MEMS Simulation. <i>Lecture Notes in Computer Science</i> , 2006 , 286-295	0.9 5
9	Elastic PMLs for resonator anchor loss simulation. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 64, 789-818	2.4 106
8	Bifurcation Analysis of Large Equilibrium Systems in Matlab. <i>Lecture Notes in Computer Science</i> , 2005 , 50-57	0.9 4
7	An algebraic approach to practical and scalable overlay network monitoring 2004 ,	108
6	An algebraic approach to practical and scalable overlay network monitoring. <i>Computer Communication Review</i> , 2004 , 34, 55-66	1.4 25
5	Tomography-based overlay network monitoring 2003 ,	33

4	On computing givens rotations reliably and efficiently. <i>ACM Transactions on Mathematical Software</i> , 2002 , 28, 206-238	2.3	46
3	Quantifying Network Denial of Service: A Location Service Case Study. <i>Lecture Notes in Computer Science</i> , 2001 , 340-351	0.9	5
2	OceanStore. <i>Operating Systems Review (ACM)</i> , 2000 , 34, 190-201	0.8	45
1	OceanStore. <i>ACM SIGPLAN Notices</i> , 2000 , 35, 190-201	0.2	185