

Bruce Hendrickson

List of Publications by Citations

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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.

35
papers

2,505
citations

23
h-index

35
g-index

35
ext. papers

2,934
ext. citations

2.3
avg, IF

5.02
L-index

#	Paper	IF	Citations
35	Conditions for Unique Graph Realizations. <i>SIAM Journal on Computing</i> , 1992 , 21, 65-84	1.1	341
34	Graph partitioning models for parallel computing. <i>Parallel Computing</i> , 2000 , 26, 1519-1534	1	262
33	A multilevel algorithm for partitioning graphs 1995 ,		254
32	An Improved Spectral Graph Partitioning Algorithm for Mapping Parallel Computations. <i>SIAM Journal of Scientific Computing</i> , 1995 , 16, 452-469	2.6	242
31	CHALLENGES IN PARALLEL GRAPH PROCESSING. <i>Parallel Processing Letters</i> , 2007 , 17, 5-20	0.3	239
30	An Algorithm for Two-Dimensional Rigidity Percolation: The Pebble Game. <i>Journal of Computational Physics</i> , 1997 , 137, 346-365	4.1	232
29	Dynamic load balancing in computational mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 184, 485-500	5.7	120
28	The Molecule Problem: Exploiting Structure in Global Optimization. <i>SIAM Journal on Optimization</i> , 1995 , 5, 835-857	2	119
27	Support Theory for Preconditioning. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2003 , 25, 694-717	1.5	59
26	Parallel strategies for crash and impact simulations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 184, 375-390	5.7	58
25	Improving the Run Time and Quality of Nested Dissection Ordering. <i>SIAM Journal of Scientific Computing</i> , 1998 , 20, 468-489	2.6	55
24	Support-Graph Preconditioners. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2006 , 27, 930-951	1.5	50
23	Finding strongly connected components in distributed graphs. <i>Journal of Parallel and Distributed Computing</i> , 2005 , 65, 901-910	4.4	50
22	Partitioning Rectangular and Structurally Unsymmetric Sparse Matrices for Parallel Processing. <i>SIAM Journal of Scientific Computing</i> , 2000 , 21, 2048-2072	2.6	48
21	Load balancing fictions, falsehoods and fallacies. <i>Applied Mathematical Modelling</i> , 2000 , 25, 99-108	4.5	43
20	AN EFFICIENT PARALLEL ALGORITHM FOR MATRIX-VECTOR MULTIPLICATION. <i>International Journal of High Speed Computing</i> , 1995 , 07, 73-88		41
19	Design of dynamic load-balancing tools for parallel applications 2000 ,		39

18	Parallel Transient Dynamics Simulations: Algorithms for Contact Detection and Smoothed Particle Hydrodynamics. <i>Journal of Parallel and Distributed Computing</i> , 1998 , 50, 104-122	4.4	37
17	Graph partitioning and parallel solvers: Has the emperor no clothes?. <i>Lecture Notes in Computer Science</i> , 1998 , 218-225	0.9	32
16	A parallel rendezvous algorithm for interpolation between multiple grids. <i>Journal of Parallel and Distributed Computing</i> , 2004 , 64, 266-276	4.4	29
15	Solving Elliptic Finite Element Systems in Near-Linear Time with Support Preconditioners. <i>SIAM Journal on Numerical Analysis</i> , 2008 , 46, 3264-3284	2.4	28
14	Parallel Sn Sweeps on Unstructured Grids: Algorithms for Prioritization, Grid Partitioning, and Cycle Detection. <i>Nuclear Science and Engineering</i> , 2005 , 150, 267-283	1.2	25
13	Maximum-weight-basis preconditioners. <i>Numerical Linear Algebra With Applications</i> , 2004 , 11, 695-721	1.6	24
12	Graph Analysis with High-Performance Computing. <i>Computing in Science and Engineering</i> , 2008 , 10, 14-19	1.5	14
11	Toward an Efficient Parallel Eigensolver for Dense Symmetric Matrices. <i>SIAM Journal of Scientific Computing</i> , 1998 , 20, 1132-1154	2.6	12
10	Latent semantic analysis and Fiedler retrieval. <i>Linear Algebra and Its Applications</i> , 2007 , 421, 345-355	0.9	12
9	Sparse Matrix Ordering Methods for Interior Point Linear Programming. <i>INFORMS Journal on Computing</i> , 1998 , 10, 107-113	2.4	12
8	Transient dynamics simulations 1996 ,		9
7	Combinatorial Scientific Computing: The Enabling Power of Discrete Algorithms in Computational Science 2006 , 260-280		7
6	Multithreaded Algorithms for Processing Massive Graphs. <i>Chapman & Hall/CRC Computational Science</i> , 2007 , 237-262		4
5	Computational science: Emerging opportunities and challenges. <i>Journal of Physics: Conference Series</i> , 2009 , 180, 012013	0.3	3
4	Partitioning sparse rectangular matrices for parallel computations of Ax and ATv . <i>Lecture Notes in Computer Science</i> , 1998 , 239-247	0.9	3
3	7. Combinatorial Parallel and Scientific Computing 2006 , 127-141		1
2	Optimal Embeddings and Eigenvalues in Support Theory. <i>SIAM Journal on Matrix Analysis and Applications</i> , 2007 , 29, 596-605	1.5	1
1	Combinatorial Scientific Computing. <i>Chapman & Hall/CRC Computational Science</i> , 2012 , 1-19		

