

Katsuki Fujisawa

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,697
citations

687363

13
h-index

377865

34
g-index

60
all docs

60
docs citations

60
times ranked

1104
citing authors

#	ARTICLE	IF	CITATIONS
1	Semidefinite programming for optimal power flow problems. International Journal of Electrical Power and Energy Systems, 2008, 30, 383-392.	5.5	439
2	Variational calculations of fermion second-order reduced density matrices by semidefinite programming algorithm. Journal of Chemical Physics, 2001, 114, 8282-8292.	3.0	239
3	Implementation and evaluation of SDPA 6.0 (Semidefinite Programming Algorithm 6.0). Optimization Methods and Software, 2003, 18, 491-505.	2.4	125
4	Exploiting sparsity in semidefinite programming via matrix completion II: implementation and numerical results. Mathematical Programming, 2003, 95, 303-327.	2.4	112
5	Exploiting sparsity in primal-dual interior-point methods for semidefinite programming. Mathematical Programming, 1997, 79, 235-253.	2.4	82
6	PHoM ? a Polyhedral Homotopy Continuation Method for Polynomial Systems. Computing (Vienna/New) Tj ETQq0 0.0 rgBT /Overlock 10	4.8	75
7	Semi-definite programming for topology optimization of trusses under multiple eigenvalue constraints. Computer Methods in Applied Mechanics and Engineering, 1999, 180, 203-217.	6.6	68
8	Variational calculation of second-order reduced density matrices by strong N-representability conditions and an accurate semidefinite programming solver. Journal of Chemical Physics, 2008, 128, 164113.	3.0	62
9	SDPARA: SemiDefinite Programming Algorithm paRAllel version. Parallel Computing, 2003, 29, 1053-1067.	2.1	53
10	Performance characteristics of Graph500 on large-scale distributed environment. , 2011, , .		49
11	NUMA-optimized parallel breadth-first search on multicore single-node system. , 2013, , .		49
12	Latest Developments in the SDPA Family for Solving Large-Scale SDPs. Profiles in Operations Research, 2012, , 687-713.	0.4	47
13	Efficient Breadth-First Search on Massively Parallel and Distributed-Memory Machines. Data Science and Engineering, 2017, 2, 22-35.	6.4	22
14	A parallel primal-dual interior-point method for semidefinite programs using positive definite matrix completion. Parallel Computing, 2006, 32, 24-43.	2.1	20
15	Fast and scalable NUMA-based thread parallel breadth-first search. , 2015, , .		18
16	Fast and Energy-efficient Breadth-First Search on a Single NUMA System. Lecture Notes in Computer Science, 2014, , 365-381.	1.3	15
17	Extreme scale breadth-first search on supercomputers. , 2016, , .		15
18	Algorithm 925. ACM Transactions on Mathematical Software, 2012, 39, 1-22.	2.9	14

#	ARTICLE	IF	CITATIONS
19	The second-order reduced density matrix method and the two-dimensional Hubbard model. Computational and Theoretical Chemistry, 2013, 1003, 22-27.	2.5	14
20	High-performance general solver for extremely large-scale semidefinite programming problems. , 2012, , .		13
21	SDPA PROJECT : SOLVING LARGE-SCALE SEMIDEFINITE PROGRAMS(<Special Issue>the 50th Anniversary of) Tj ETQq1 1 0.784314 rgB 50, 278-298.	0.2	12
22	PHoMpara â€“ Parallel Implementation of the Polyhedral Homotopy Continuation Method for Polynomial Systems. Computing (Vienna/New York), 2006, 77, 387-411.	4.8	11
23	NVM-based Hybrid BFS with memory efficient data structure. , 2014, , .		11
24	Petascale General Solver for Semidefinite Programming Problems with Over Two Million Constraints. , 2014, , .		11
25	NUMA-aware Scalable Graph Traversal on SGI UV Systems. , 2016, , .		11
26	Performance Evaluation of Supercomputer Fugaku using Breadth-First Search Benchmark in Graph500. , 2020, , .		11
27	ENUMERATION OF ALL SOLUTIONS OF A COMBINATORIAL LINEAR INEQUALITY SYSTEM ARISING FROM THE POLYHEDRAL HOMOTOPY CONTINUATION METHOD. Journal of the Operations Research Society of Japan, 2002, 45, 64-82.	0.2	9
28	Hybrid BFS Approach Using Semi-external Memory. , 2014, , .		9
29	Approximation of Optimal Two-Dimensional Association Rules for Categorical Attributes Using Semidefinite Programming. Lecture Notes in Computer Science, 1999, , 148-159.	1.3	9
30	Parallel Implementation of Successive Convex Relaxation Methods for Quadratic Optimization Problems. Journal of Global Optimization, 2002, 24, 237-260.	1.8	8
31	Performance of the Supercomputer Fugaku for Breadth-First Search in Graph500 Benchmark. Lecture Notes in Computer Science, 2021, , 372-390.	1.3	7
32	Preprocessing sparse semidefinite programs via matrix completion. Optimization Methods and Software, 2006, 21, 17-39.	2.4	6
33	Offline map matching using time-expanded graph for low-frequency data. Transportation Research Part C: Emerging Technologies, 2021, 130, 103265.	7.6	6
34	SOLVING LARGE SCALE OPTIMIZATION PROBLEMS VIA GRID AND CLUSTER COMPUTING(<Special) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 10 Japan, 2004, 47, 265-274.	0.2	5
35	Practical approach to evacuation planning via network flow and deep learning. , 2017, , .		5
36	NETAL : HIGH-PERFORMANCE IMPLEMENTATION OF NETWORK ANALYSIS LIBRARY CONSIDERING COMPUTER MEMORY HIERARCHY(<Special Issue>SCOPE (Seminar on Computation and OPTimization for new) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.2	5

#	ARTICLE	IF	CITATIONS
37	VARIATIONAL APPROACH TO ELECTRONIC STRUCTURE CALCULATIONS ON SECOND-ORDER REDUCED DENSITY MATRICES AND THE N-REPRESENTABILITY PROBLEM. Lecture Notes Series, Institute for Mathematical Sciences, 2013, , 163-194.	0.2	4
38	Convex optimization approaches to maximally predictable portfolio selection. Optimization, 2014, 63, 1713-1735.	1.7	4
39	The scalable petascale data-driven approach for the Cholesky factorization with multiple GPUs. , 2015, , .		3
40	Power-Efficient Breadth-First Search with DRAM Row Buffer Locality-Aware Address Mapping. , 2016, , .		3
41	New Performance Index "Attractiveness Factor" for Evaluating Websites via Obtaining Transition of Users'™ Interests. Data Science and Engineering, 2020, 5, 48-64.	6.4	2
42	Advanced Computing and Optimization Infrastructure for Extremely Large-Scale Graphs on Post Peta-Scale Supercomputers. Lecture Notes in Computer Science, 2016, , 265-274.	1.3	2
43	Massive Parallelization for Finding Shortest Lattice Vectors Based on Ubiquity Generator Framework. , 2020, , .		2
44	CMAP-LAP: Configurable Massively Parallel Solver for Lattice Problems. , 2021, , .		2
45	Evaluating the impacts of code-level performance tunings on power efficiency. , 2016, , .		1
46	Evaluating Energy-Efficiency of DRAM Channel Interleaving Schemes for Multithreaded Programs. IEICE Transactions on Information and Systems, 2018, E101.D, 2247-2257.	0.7	1
47	G2 B-Spline Computation for Continuous Trajectory Generation. , 2021, , .		1
48	OPTIMIZATION SYSTEM OF SUB-PACKAGE PROBLEM IN BUILDING CONSTRUCTION PROJECT USING MATHEMATICAL PROGRAMMING. Nihon Kenchiku Gakkai Keikakukei Ronbunshu, 2001, 66, 235-242.	0.3	1
49	CONSTRUCTION PLANNING OF REPETITIVE WORK WITH THEORY OF CONSTRAINTS. Nihon Kenchiku Gakkai Keikakukei Ronbunshu, 2002, 67, 281-288.	0.3	1
50	Visualization of Stability of Dynamical Systems by 3D Graphics Supported by Cluster Computing. , 2005, , .		0
51	An indirect search algorithm for disaster restoration with precedence and synchronization constraints. Pacific Journal of Mathematics for Industry, 2017, 9, .	0.7	0
52	Mobility Optimization on Cyber Physical System via Multiple Object Tracking and Mathematical Programming. , 2018, , .		0
53	Hybrid Vehicle Control and Optimization with a New Mathematical Method. IFAC-PapersOnLine, 2018, 51, 201-206.	0.9	0
54	Obstacle Avoidable G2-continuous Trajectory Generated with Clothoid Spline Solution. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
55	STUDY ON WORKING DRAWINGS AND SHOP DRAWINGS SCHEDULING. Nihon Kenchiku Gakkai Keikaku-kei Ronbunshu, 2001, 66, 223-230.	0.3	0
56	PARALLEL IMPLEMENTATION OF POLYHEDRAL CONTINUATION METHODS FOR SYSTEMS OF POLYNOMIAL EQUATIONS. , 2002, , .		0
57	High Performance Computing for Mathematical Optimization Problem. Mathematics for Industry, 2014, , 401-421.	0.4	0
58	Advanced Computing and Optimization Infrastructure for Extremely Large-Scale Graphs on Post-peta-scale Supercomputers. , 2019, , 207-226.		0