

Tetsuya Sakurai

List of Publications by Year in descending order

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82
papers

1,513
citations

361296

20
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345118

36
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85
all docs

85
docs citations

85
times ranked

600
citing authors

#	ARTICLE	IF	CITATIONS
1	A projection method for generalized eigenvalue problems using numerical integration. Journal of Computational and Applied Mathematics, 2003, 159, 119-128.	1.1	243
2	A numerical method for nonlinear eigenvalue problems using contour integrals. JSIAM Letters, 2009, 1, 52-55.	0.3	135
3	A filter diagonalization for generalized eigenvalue problems based on the Sakurai's Sugiura projection method. Journal of Computational and Applied Mathematics, 2010, 233, 1927-1936.	1.1	106
4	CIRR: a Rayleigh-Ritz type method with contour integral for generalized eigenvalue problems. Hokkaido Mathematical Journal, 2007, 36, .	0.2	82
5	ToxIBTL: prediction of peptide toxicity based on information bottleneck and transfer learning. Bioinformatics, 2022, 38, 1514-1524.	1.8	54
6	CONTOUR INTEGRAL EIGENSOLVER FOR NON-HERMITIAN SYSTEMS: A RAYLEIGH-RITZ-TYPE APPROACH. Taiwanese Journal of Mathematics, 2010, 14, .	0.2	53
7	A projection method for nonlinear eigenvalue problems using contour integrals. JSIAM Letters, 2013, 5, 41-44.	0.3	48
8	ATSE: a peptide toxicity predictor by exploiting structural and evolutionary information based on graph neural network and attention mechanism. Briefings in Bioinformatics, 2021, 22, .	3.2	43
9	Efficient Parameter Estimation and Implementation of a Contour Integral-Based Eigensolver. Journal of Algorithms and Computational Technology, 2013, 7, 249-269.	0.4	42
10	A numerical method for polynomial eigenvalue problems using contour integral. Japan Journal of Industrial and Applied Mathematics, 2010, 27, 73-90.	0.5	40
11	An oversampling framework for imbalanced classification based on Laplacian eigenmaps. Neurocomputing, 2020, 399, 107-116.	3.5	33
12	Parallel stochastic estimation method of eigenvalue distribution. JSIAM Letters, 2010, 2, 127-130.	0.3	31
13	A block Arnoldi-type contour integral spectral projection method for solving generalized eigenvalue problems. Applied Mathematics Letters, 2014, 32, 22-27.	1.5	30
14	NerLTR-DTA: drug-target binding affinity prediction based on neighbor relationship and learning to rank. Bioinformatics, 2022, 38, 1964-1971.	1.8	29
15	Relationships among contour integral-based methods for solving generalized eigenvalue problems. Japan Journal of Industrial and Applied Mathematics, 2016, 33, 721-750.	0.5	27
16	Stochastic estimation of nuclear level density in the nuclear shell model: An application to parity-dependent level density in 58 Ni. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 13-17.	1.5	24
17	Parallel Fock matrix construction with distributed shared memory model for the FMO's MO method. Journal of Computational Chemistry, 2010, 31, 2381-2388.	1.5	23
18	Robust Similarity Measure for Spectral Clustering Based on Shared Neighbors. ETRI Journal, 2016, 38, 540.	1.2	23

#	ARTICLE	IF	CITATIONS
19	An error analysis of two related quadrature methods for computing zeros of analytic functions. <i>Journal of Computational and Applied Mathematics</i> , 2003, 152, 467-480.	1.1	21
20	Error bounds of Rayleigh-Ritz type contour integral-based eigensolver for solving generalized eigenvalue problems. <i>Numerical Algorithms</i> , 2016, 71, 103-120.	1.1	21
21	Efficient Calculation of Electronic Structure Using O(N) Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4146-4153.	2.3	21
22	Performance comparison of parallel eigensolvers based on a contour integral method and a Lanczos method. <i>Parallel Computing</i> , 2013, 39, 280-290.	1.3	20
23	Stochastic estimation method of eigenvalue density for nonlinear eigenvalue problem on the complex plane. <i>JSIAM Letters</i> , 2011, 3, 61-64.	0.3	20
24	Spectral clustering with adaptive similarity measure in Kernel space. <i>Intelligent Data Analysis</i> , 2018, 22, 751-765.	0.4	19
25	Distributed Collaborative Feature Selection Based on Intermediate Representation. , 2019, , .		19
26	A perturbation result for generalized eigenvalue problems and its application to error estimation in a quadrature method for computing zeros of analytic functions. <i>Journal of Computational and Applied Mathematics</i> , 2003, 161, 339-347.	1.1	18
27	Filter diagonalization of shell-model calculations. <i>Physical Review C</i> , 2010, 82, .	1.1	17
28	Block Krylov-type complex moment-based eigensolvers for solving generalized eigenvalue problems. <i>Numerical Algorithms</i> , 2017, 75, 413-433.	1.1	16
29	Block BiCGGR: a new Block Krylov subspace method for computing high accuracy solutions. <i>JSIAM Letters</i> , 2009, 1, 44-47.	0.3	14
30	Data Collaboration Analysis Framework Using Centralization of Individual Intermediate Representations for Distributed Data Sets. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2020, 6, .	1.1	13
31	Interpretable collaborative data analysis on distributed data. <i>Expert Systems With Applications</i> , 2021, 177, 114891.	4.4	13
32	Block SS-CAA: A complex moment-based parallel nonlinear eigensolver using the block communication-avoiding Arnoldi procedure. <i>Parallel Computing</i> , 2018, 74, 34-48.	1.3	11
33	Detecting Interactive Gene Groups for Single-Cell RNA-Seq Data Based on Co-Expression Network Analysis and Subgraph Learning. <i>Cells</i> , 2020, 9, 1938.	1.8	11
34	A quadrature-based eigensolver with a Krylov subspace method for shifted linear systems for Hermitian eigenproblems in lattice QCD. <i>JSIAM Letters</i> , 2010, 2, 115-118.	0.3	11
35	Error analysis for a matrix pencil of Hankel matrices with perturbed complex moments. <i>JSIAM Letters</i> , 2009, 1, 76-79.	0.3	10
36	Solving large-scale nonlinear eigenvalue problems by rational interpolation and resolvent sampling based Rayleigh-Ritz method. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 110, 776-800.	1.5	10

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37	Current status and future prospects of drug-target interaction prediction. Briefings in Functional Genomics, 2021, 20, 312-322.	1.3	10
38	Ensemble Learning for Spectral Clustering. , 2020, , .		10
39	A parallel method for large sparse generalized eigenvalue problems using a GridRPC system. Future Generation Computer Systems, 2008, 24, 613-619.	4.9	9
40	Experimental Analysis of the Tournament Size on Genetic Algorithms. , 2018, , .		9
41	Complex Moment-Based Supervised Eigenmap for Dimensionality Reduction. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 3910-3918.	3.6	9
42	Application of learning to rank in bioinformatics tasks. Briefings in Bioinformatics, 2021, 22, .	3.2	9
43	Large Scale Spectral Clustering Using Sparse Representation Based on Hubness. , 2018, , .		8
44	Reduced-Shifted Conjugate-Gradient Method for a Greenâ€™s Function: Efficient Numerical Approach in a Nano-Structured Superconductor. Journal of the Physical Society of Japan, 2017, 86, 014708.	0.7	7
45	Parallel Implementation of the Nonlinear Semi-NMF Based Alternating Optimization Method for Deep Neural Networks. Neural Processing Letters, 2018, 47, 815-827.	2.0	7
46	Divide-and-conquer based large-scale spectral clustering. Neurocomputing, 2022, 501, 664-678.	3.5	7
47	Ensemble Feature Learning to Identify Risk Factors for Predicting Secondary Cancer. International Journal of Medical Sciences, 2019, 16, 949-959.	1.1	6
48	Risk and Advantages of Federated Learning for Health Care Data Collaboration. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2020, 6, .	1.1	6
49	Collaborative Data Analysis: Non-model Sharing-Type Machine Learning for Distributed Data. Lecture Notes in Computer Science, 2021, , 14-29.	1.0	6
50	Multiview network embedding for drug-target Interactions prediction by consistent and complementary information preserving. Briefings in Bioinformatics, 2022, 23, .	3.2	6
51	A Moment-Based Method for Large-Scale Generalized Eigenvalue Problems. Applied Numerical Analysis and Computational Mathematics, 2004, 1, 516-523.	0.6	4
52	Efficient and scalable calculation of complex band structure using Sakurai-Sugiura method. , 2017, , .		4
53	Backward error analysis for linearizations in heavily damped quadratic eigenvalue problem. Numerical Linear Algebra With Applications, 2019, 26, e2253.	0.9	4
54	Performance Improvement by Data Management Layer in a Grid RPC System. Lecture Notes in Computer Science, 2006, , 324-335.	1.0	4

#	ARTICLE	IF	CITATIONS
55	Scalable Eigen-Analysis Engine for Large-Scale Eigenvalue Problems. , 2019, , 37-57.		4
56	Structural analysis based on unsupervised learning: Search for a characteristic low-dimensional space by local structures in atomistic simulations. Physical Review B, 2022, 105, .	1.1	4
57	Block conjugate gradient type methods for the approximation of bilinear form CHA ² B. Computers and Mathematics With Applications, 2014, 66, 2446-2455.	1.4	3
58	Better Performance with Transformer: CPPFormer in precise prediction of cell-Penetrating Peptides. Current Medicinal Chemistry, 2021, 28, .	1.2	3
59	Alternating Optimization Method Based on Nonnegative Matrix Factorizations for Deep Neural Networks. Lecture Notes in Computer Science, 2016, , 354-362.	1.0	3
60	A real-valued block conjugate gradient type method for solving complex symmetric linear systems with multiple right-hand sides. , 2017, 62, 333-355.		2
61	Multi-GPU Scalable Implementation of a Contour-Integral-Based Eigensolver for Real Symmetric Dense Generalized Eigenvalue Problems. , 2013, , .		1
62	Spectral clustering using robust similarity measure based on closeness of shared Nearest Neighbors. , 2015, , .		1
63	Performance evaluation of the Sakurai-Sugiura method with a block Krylov subspace linear solver for large dense Hermitian-definite generalized eigenvalue problems. JSIAM Letters, 2018, 10, 77-80.	0.3	1
64	A Training Difficulty Schedule for Effective Search of Meta-Heuristic Design. , 2020, , .		1
65	Hubness-based Sampling Method for Nyström Spectral Clustering. , 2020, , .		1
66	Decentralized Learning with Virtual Patients for Medical Diagnosis of Diabetes. SN Computer Science, 2021, 2, 1.	2.3	1
67	Spectral Clustering Joint Deep Embedding Learning by Autoencoder. , 2021, , .		1
68	A block sparse approximate inverse with cutoff preconditioner for semi-sparse linear systems derived from Molecular Orbital calculations. JSIAM Letters, 2010, 2, 41-44.	0.3	1
69	ESSEX: Equipping Sparse Solvers For Exascale. Lecture Notes in Computational Science and Engineering, 2020, , 143-187.	0.1	1
70	Sequential reinforcement active feature learning for gene signature identification in renal cell carcinoma. Journal of Biomedical Informatics, 2022, 128, 104049.	2.5	1
71	Flexible subspace iteration with moments for an effective contour integration ² -based eigensolver. Numerical Linear Algebra With Applications, 2022, 29, .	0.9	1
72	A Method for Avoiding Breakdown in Product-Type Iterative Methods and its Behavior for Toeplitz Linear Systems. Applied Numerical Analysis and Computational Mathematics, 2005, 2, 254-261.	0.6	0

#	ARTICLE	IF	CITATIONS
73	Problem-Solving Support System for Mathematical Sciences. , 2007, , .		0
74	Construction of a metadata space for a specific field of knowledge from an index of a document. Systems and Computers in Japan, 2007, 38, 30-42.	0.2	0
75	Parallel Eigensolver for Large Scale Non-linear Systems. , 2010, , .		0
76	International workshop on eigenvalue problems: algorithms; software and applications, in petascale computing (EPASA2018). Japan Journal of Industrial and Applied Mathematics, 2019, 36, 561-562.	0.5	0
77	Simultaneous band reduction of two symmetric matrices. Computers and Mathematics With Applications, 2019, 77, 2207-2220.	1.4	0
78	Scaling Method for Batch Effect Correction of Gene Expression Data Based on Spectral Clustering. Current Bioinformatics, 2021, 16, 505-511.	0.7	0
79	The tropical scaling for the polynomial eigenvalue problem solved by a contour integral method. Numerical Linear Algebra With Applications, 0, , e2413.	0.9	0
80	Efficient Contour Integral-based Eigenvalue Computation Using an Iterative Linear Solver with Shift-Invert Preconditioning. , 2021, , .		0
81	A convergence improvement of the BSAIC preconditioner by deflation. JSIAM Letters, 2011, 3, 5-8.	0.3	0
82	An Error Resilience Strategy of a Complex Moment-Based Eigensolver. Lecture Notes in Computational Science and Engineering, 2017, , 1-18.	0.1	0