

Pedro Alonso-Jordã;

List of Publications by Year in descending order

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papers

542
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932766
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16
g-index

91
all docs

91
docs citations

91
times ranked

458
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance computing: the essential tool and the essential challenge. Journal of Supercomputing, 2017, 73, 1-3.	2.4	66
2	Tools for Power-Energy Modelling and Analysis of Parallel Scientific Applications. , 2012, , .		46
3	Backward error analysis of Neville elimination. Applied Numerical Mathematics, 1997, 23, 193-204.	1.2	30
4	Developing and validating a competence framework for secondary mathematics student teachers through a Delphi method. Journal of Education for Teaching, 0, , 1-17.	1.1	17
5	Assessing Power Monitoring Approaches for Energy and Power Analysis of Computers. Sustainable Computing: Informatics and Systems, 2014, 4, 68-82.	1.6	15
6	Parallel online time warping for real-time audio-to-score alignment in multi-core systems. Journal of Supercomputing, 2017, 73, 126-138.	2.4	14
7	Late Neanderthal subsistence strategies and cultural traditions in the northern Iberia Peninsula: Insights from Prado Vargas, Burgos, Spain. Quaternary Science Reviews, 2021, 254, 106795.	1.4	14
8	High Performance and Portable Convolution Operators for Multicore Processors. , 2020, , .		14
9	Improving power efficiency of dense linear algebra algorithms on multi-core processors via slack control. , 2011, , .		12
10	DVFS-control techniques for dense linear algebra operations on multi-core processors. Computer Science - Research and Development, 2012, 27, 289-298.	2.7	12
11	Reducing Energy Consumption of Dense Linear Algebra Operations on Hybrid CPU-GPU Platforms. , 2012, , .		12
12	Modeling power and energy of the task-parallel Cholesky factorization on multicore processors. Computer Science - Research and Development, 2014, 29, 105-112.	2.7	12
13	Solving Some Mysteries in Power Monitoring of Servers: Take Care of Your Wattmeters!. Lecture Notes in Computer Science, 2013, , 3-18.	1.0	12
14	Two algorithms for computing the matrix cosine function. Applied Mathematics and Computation, 2017, 312, 66-77.	1.4	11
15	An Efficient Parallel Algorithm to Solve Block?Toeplitz Systems. Journal of Supercomputing, 2005, 32, 251-278.	2.4	10
16	Efficient and accurate algorithms for computing matrix trigonometric functions. Journal of Computational and Applied Mathematics, 2017, 309, 325-332.	1.1	10
17	Designing polylibraries to speed up linear algebra computations. International Journal of High Performance Computing and Networking, 2004, 1, 75.	0.4	9
18	Experimental Study of Six Different Implementations of Parallel Matrix Multiplication on Heterogeneous Computational Clusters of Multicore Processors. , 2010, , .		9

#	ARTICLE	IF	CITATIONS
19	Exploring the Effectiveness of Video-Vignettes to Develop Mathematics Student Teachers'™ Feedback Competence. <i>Eurasia Journal of Mathematics, Science and Technology Education</i> , 2018, 14, .	0.7	9
20	Green and facile sol-gel synthesis of the mesoporous $\text{SiO}_2/\text{TiO}_2$ catalyst by four different activation modes. <i>RSC Advances</i> , 2020, 10, 39580-39588.	1.7	9
21	An efficient musical accompaniment parallel system for mobile devices. <i>Journal of Supercomputing</i> , 2017, 73, 343-353.	2.4	8
22	Alternative mass spectrometry techniques for the validation of the fragmentation pattern of capsaicin and dihydrocapsaicin. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 635-640.	0.7	8
23	On Bernoulli matrix polynomials and matrix exponential approximation. <i>Journal of Computational and Applied Mathematics</i> , 2022, 404, 113207.	1.1	8
24	A study of the performance of Neville elimination using two kinds of partitioning techniques. <i>Linear Algebra and Its Applications</i> , 2001, 332-334, 111-117.	0.4	7
25	Parallel Algorithms for the Solution of Toeplitz Systems of Linear Equations. <i>Lecture Notes in Computer Science</i> , 2004, , 969-976.	1.0	7
26	Solving the block-Toeplitz least-squares problem in parallel. <i>Concurrency Computation Practice and Experience</i> , 2005, 17, 49-67.	1.4	7
27	Saving Energy in the LU Factorization with Partial Pivoting on Multi-core Processors. , 2012, , .		7
28	Fast Taylor polynomial evaluation for the computation of the matrix cosine. <i>Journal of Computational and Applied Mathematics</i> , 2019, 354, 641-650.	1.1	7
29	Advances in the Approximation of the Matrix Hyperbolic Tangent. <i>Mathematics</i> , 2021, 9, 1219.	1.1	7
30	Performance modeling of the sparse matrix-vector product via convolutional neural networks. <i>Journal of Supercomputing</i> , 2020, 76, 8883-8900.	2.4	7
31	An Efficient and Stable Parallel Solution for Non-symmetric Toeplitz Linear Systems. <i>Lecture Notes in Computer Science</i> , 2005, , 685-698.	1.0	6
32	Parallel computation of the eigenvalues of symmetric Toeplitz matrices through iterative methods. <i>Journal of Parallel and Distributed Computing</i> , 2008, 68, 1113-1121.	2.7	6
33	Energy-efficient execution of dense linear algebra algorithms on multi-core processors. <i>Cluster Computing</i> , 2013, 16, 497-509.	3.5	6
34	A new efficient and accurate spline algorithm for the matrix exponential computation. <i>Journal of Computational and Applied Mathematics</i> , 2018, 337, 354-365.	1.1	6
35	Parallel border tracking in binary images using GPUs. <i>Journal of Supercomputing</i> , 2022, 78, 9817-9839.	2.4	6
36	An efficient and accurate algorithm for computing the matrix cosine based on new Hermite approximations. <i>Journal of Computational and Applied Mathematics</i> , 2019, 348, 1-13.	1.1	5

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37	Exploring hybrid parallel systems for probabilistic record linkage. Journal of Supercomputing, 2019, 75, 1137-1149.	2.4	5
38	Development of block and partitioned Neville elimination. Comptes Rendus Mathematique, 1999, 329, 1091-1096.	0.5	4
39	Heterogeneous Computational Model for Landform Attributes Representation on Multicore and Multi-GPU Systems. Procedia Computer Science, 2012, 9, 47-56.	1.2	4
40	Solving systems of symmetric Toeplitz tridiagonal equations: Rojo's algorithm revisited. Applied Mathematics and Computation, 2012, 219, 1874-1889.	1.4	4
41	Accelerating multi-channel filtering of audio signal on ARM processors. Journal of Supercomputing, 2017, 73, 203-214.	2.4	4
42	Computing matrix trigonometric functions with GPUs through Matlab. Journal of Supercomputing, 2019, 75, 1227-1240.	2.4	4
43	A multilevel parallel algorithm to solve symmetric Toeplitz linear systems. Journal of Supercomputing, 2008, 44, 237-256.	2.4	3
44	Parallel solvers for dense linear systems for heterogeneous computational clusters. , 2009, , .		3
45	Auto-tuning methodology to represent landform attributes on multicore and multi-GPU systems. , 2013, , .		3
46	Modeling power and energy consumption of dense matrix factorizations on multicore processors. Concurrency Computation Practice and Experience, 2014, 26, 2743-2757.	1.4	3
47	A fast band Krylov eigensolver for macromolecular functional motion simulation on multicore architectures and graphics processors. Journal of Computational Physics, 2016, 309, 314-323.	1.9	3
48	HReMAS: hybrid real-time musical alignment system. Journal of Supercomputing, 2019, 75, 1001-1013.	2.4	3
49	Heterogeneous PBLAS: Optimization of PBLAS for Heterogeneous Computational Clusters. , 2008, , .		2
50	Self-organization of ultrasound in viscous fluids. Europhysics Letters, 2010, 92, 10003.	0.7	2
51	A multicore solution to Block Toeplitz linear systems of equations. Journal of Supercomputing, 2013, 65, 999-1009.	2.4	2
52	Enhancing performance and energy consumption of runtime schedulers for dense linear algebra. Concurrency Computation Practice and Experience, 2014, 26, 2591-2611.	1.4	2
53	Time and energy modeling of high-performance Level-3 BLAS on x86 architectures. Simulation Modelling Practice and Theory, 2015, 55, 77-94.	2.2	2
54	Automatic tuning to performance modelling of matrix polynomials on multicore and multi-GPU systems. Journal of Supercomputing, 2017, 73, 227-239.	2.4	2

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55	Online score-informed source separation in polyphonic mixtures using instrument spectral patterns. Computational and Mathematical Methods, 2019, 1, e1040.	0.3	2
56	Real-time Soundprism. Journal of Supercomputing, 2019, 75, 1594-1609.	2.4	2
57	Implementation of the Beamformer Algorithm for the NVIDIA Jetson. Lecture Notes in Computer Science, 2016, , 201-211.	1.0	2
58	Two Taylor Algorithms for Computing the Action of the Matrix Exponential on a Vector. Algorithms, 2022, 15, 48.	1.2	2
59	A Parallel Algorithm for the Solution of the Deconvolution Problem on Heterogeneous Networks. , 2006, , .		1
60	A Threaded Divide and Conquer Symmetric Tridiagonal Eigensolver on Multicore Systems. , 2008, , .		1
61	Implementation and tuning of a parallel symmetric Toeplitz eigensolver. Journal of Parallel and Distributed Computing, 2011, 71, 485-494.	2.7	1
62	Auto-Tuning Methodology to Represent Landform Attributes on Multicore and Multi-GPU Systems. , 2012, , .		1
63	Solving time-invariant differential matrix Riccati equations using GPGPU computing. Journal of Supercomputing, 2014, 70, 623-636.	2.4	1
64	Automatic routine tuning to represent landform attributes on multicore and multi-GPU systems. Journal of Supercomputing, 2014, 70, 733-745.	2.4	1
65	Block pivoting implementation of a symmetric Toeplitz solver. Journal of Parallel and Distributed Computing, 2014, 74, 2392-2399.	2.7	1
66	Reduction to Tridiagonal Form for Symmetric Eigenproblems on Asymmetric Multicore Processors. , 2017, , .		1
67	A pipeline structure for the block QR update in digital signal processing. Journal of Supercomputing, 2019, 75, 1470-1482.	2.4	1
68	Fast block QR update in digital signal processing. Journal of Supercomputing, 2019, 75, 1051-1064.	2.4	1
69	On Bernoulli series approximation for the matrix cosine. Mathematical Methods in the Applied Sciences, 2022, 45, 3239-3253.	1.2	1
70	Efficient update of determinants for many-electron wave function overlaps. Computer Physics Communications, 2021, 258, 107521.	3.0	1
71	Low precision matrix multiplication for efficient deep learning in NVIDIA Carmel processors. Journal of Supercomputing, 2021, 77, 11257-11269.	2.4	1
72	Runtime Scheduling of the LU Factorization: Performance and Energy. Lecture Notes in Computer Science, 2013, , 153-167.	1.0	1

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73	Parallel Algorithm for Landform Attributes Representation on Multicore and Multi-GPU Systems. Lecture Notes in Computer Science, 2012, , 29-43.	1.0	1
74	Parallel signal detection for generalized spatial modulation MIMO systems. Journal of Supercomputing, 2022, 78, 7059.	2.4	1
75	New Hermite series expansion for computing the matrix hyperbolic cosine. Journal of Computational and Applied Mathematics, 2022, 408, 114084.	1.1	1
76	Parallel Neville elimination: A simple cost-optimal algorithm. , 0, , .		0
77	Scalable Dense Factorizations for Heterogeneous Computational Clusters. , 2008, , .		0
78	Two-sided orthogonal reductions to condensed forms on asymmetric multicore processors. Parallel Computing, 2018, 78, 85-100.	1.3	0
79	Generalization of the K-SVD algorithm for minimization of \hat{l}^2 -divergence. , 2019, 92, 47-53.		0
80	A pipeline for the QR update in digital signal processing. Computational and Mathematical Methods, 2020, 2, e1022.	0.3	0
81	A Parallel Algorithm for Solving the Toeplitz Least Squares Problem. Lecture Notes in Computer Science, 2001, , 316-329.	1.0	0
82	A GPU Approach to the Simulation of Spatio-temporal Dynamics in Ultrasonic Resonators. Lecture Notes in Computer Science, 2010, , 379-386.	1.0	0
83	Energy aware ultrascale systems. , 2019, , 127-188.		0
84	A Pipelined Parallel Algorithm for OSIC Decoding. , 2008, , 419-428.		0