RamÃ³n Doallo

List of Publications by Year
in descending order

45 papers	675 citations	10 h-index
	933447	

18 g-index
839539

| 46 all docs | 46 docs citations | 46 times ranked | 939 citing authors |

#	Article	IF	Citations
1	Parameter estimation in large-scale systems biology models: a parallel and self-adaptive cooperative strategy. BMC Bioinformatics, 2017, 18, 52.	2.6	300
2	A population-based iterated greedy algorithm for the delimitation and zoning of rural settlements. Computers, Environment and Urban Systems, 2013, 39, 12-26.	7.1	47
3	CPPC: a compilerâ€assisted tool for portable checkpointing of messageâ€passing applications. Concurrency Computation Practice and Experience, 2010, 22, 749-766.	2.2	41
4	F-MPJ: scalable Java message-passing communications on parallel systems. Journal of Supercomputing, 2012, 60, 117-140.	3.6	30
5	Solving Large Problem Sizes of Index-Digit Algorithms on GPU: FFT and Tridiagonal System Solvers. IEEE Transactions on Computers, 2018, 67, 86-101.	3.4	19
6	Generalâ€purpose computation on GPUs for high performance cloud computing. Concurrency Computation Practice and Experience, 2013, 25, 1628-1642.	2.2	17
7	NPB-MPJ: NAS Parallel Benchmarks Implementation for Message-Passing in Java. , 2009, , .		15
8	Supporting multi-resolution out-of-core rendering of massive LiDAR point clouds through non-redundant data structures. International Journal of Geographical Information Science, 2019, 33, 593-617.	4.8	15
9	Big Data Geospatial Processing for Massive Aerial LiDAR Datasets. Remote Sensing, 2020, 12, 719.	4.0	15
10	Automated and accurate cache behavior analysis for codes with irregular access patterns. Concurrency Computation Practice and Experience, 2007, 19, 2407-2423.	2.2	14
11	Using the Cloud for Parameter Estimation Problems: Comparing Spark vs MPI with a Case-Study. , 2017, , .		11
12	Evaluation of Java for General Purpose GPU Computing. , 2013, , .		10
13	Designing Efficient Index-Digit Algorithms for CUDA GPU Architectures. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1331-1343.	5.6	10
14	Towards cloud-based parallel metaheuristics. International Journal of High Performance Computing Applications, 2018, 32, 693-705.	3.7	10
15	Adaptive Set-Granular Cooperative Caching. , 2012, , .		9
16	UPCBLAS: a library for parallel matrix computations in Unified Parallel C. Concurrency Computation Practice and Experience, 2012, 24, 1645-1667.	2.2	8
17	Web-GIS tool for the management of rural land markets. Earth Science Informatics, 2013, 6, 209-226.	3.2	8
18	FastMPJ: a scalable and efficient Java message-passing library. Cluster Computing, 2014, 17, 1031-1050.	5.0	8

#	Article	IF	Citations
19	GVLiDAR: an interactive web-based visualization framework to support geospatial measures on lidar data. International Journal of Remote Sensing, 2017, 38, 827-849.	2.9	8
20	Design of efficient Java message-passing collectives onÂmulti-core clusters. Journal of Supercomputing, 2011, 55, 126-154.	3.6	7
21	Efficient Scan Operator Methods on a GPU. , 2014, , .		6
22	High-performance computing selection of models of DNA substitution for multicore clusters. International Journal of High Performance Computing Applications, 2014, 28, 112-125.	3.7	6
23	New Tridiagonal Systems Solvers on GPU Architectures. , 2015, , .		6
24	Performance Evaluation of Unified Parallel C Collective Communications. , 2009, , .		5
25	Design and Implementation of MapReduce Using the PGAS Programming Model with UPC. , 2011, , .		5
26	Device level communication libraries for highâ€performance computing in Java. Concurrency Computation Practice and Experience, 2011, 23, 2382-2403.	2.2	5
27	Automatic Generation of Optimized OpenCL Codes Using OCLoptimizer. Computer Journal, 2015, 58, 3057-3073.	2.4	5
28	High Performance Java Sockets for Parallel Computing on Clusters. , 2007, , .		4
29	Scalable Java Communication Middleware for Hybrid Shared/Distributed Memory Architectures. , 2011, , .		4
30	Design of scalable Java message-passing communications over InfiniBand. Journal of Supercomputing, 2012, 61, 141-165.	3.6	4
31	A New Spatial Criteria Method to Delimit Rural Settlements towards Boundaries Equity: Land Use Optimization for Decision Making in Galicia, NW Spain. Land, 2022, 11, 800.	2.9	4
32	Multimethod optimization in the cloud: A caseâ€study in systems biology modelling. Concurrency Computation Practice and Experience, 2018, 30, e4488.	2.2	3
33	Analysis of intervalâ€grouped data in weed science: The binnednp Rcpp package. Ecology and Evolution, 2019, 9, 10903-10915.	1.9	3
34	Hybrid parallel multimethod hyperheuristic for mixed-integer dynamic optimization problems in computational systems biology. Journal of Supercomputing, 2019, 75, 3471-3498.	3.6	3
35	Address-Independent Estimation of the Worst-Case Memory Performance. IEEE Transactions on Industrial Informatics, 2010, 6, 664-677.	11.3	2
36	Design and Implementation of an Extended Collectives Library for Unified Parallel C. Journal of Computer Science and Technology, 2013, 28, 72-89.	1.5	2

#	Article	IF	Citations
37	Solving Multiple Tridiagonal Systems on a Multi-GPU Platform. , 2018, , .		2
38	Compiler-Assisted Checkpointing of Parallel Codes: The Cetus and LLVM Experience. International Journal of Parallel Programming, 2013, 41, 782-805.	1.5	1
39	Parallel Monte Carlo radiosity using scene partitioning. International Journal of High Performance Computing Applications, 2013, 27, 318-334.	3.7	1
40	Multimethod Optimization for Reverse Engineering of Complex Biological Networks. , 2018, , .		1
41	Efficient high-precision integer multiplication on the GPU. International Journal of High Performance Computing Applications, 2022, 36, 356-369.	3.7	1
42	Parallel hierarchical radiosity on hybrid platforms. Journal of Supercomputing, 2011, 58, 357-366.	3.6	0
43	Using an Analytical Model of Shared Caches for Selecting the Optimal Parallelization Scheme. , 2012, , .		0
44	SPLG: A Tuned Signal Processing Library for GPU Architectures. , 2013, , .		0
45	Low‐latency Java communication devices on RDMA‐enabled networks. Concurrency Computation Practice and Experience, 2015, 27, 4852-4879.	2.2	0