RamÃ³n Doallo

List of Publications by Year
in descending order

45	675	933447	839539
papers	citations	10	18
		h-index	g-index

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

#	Article	IF	Citations
1	Efficient high-precision integer multiplication on the GPU. International Journal of High Performance Computing Applications, 2022, 36, 356-369.	3.7	1
2	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
3	Big Data Geospatial Processing for Massive Aerial LiDAR Datasets. Remote Sensing, 2020, 12, 719.	4.0	15
4	Analysis of interval‐grouped data in weed science: The binnednp Rcpp package. Ecology and Evolution, 2019, 9, 10903-10915.	1.9	3
5	Hybrid parallel multimethod hyperheuristic for mixed-integer dynamic optimization problems in computational systems biology. Journal of Supercomputing, 2019, 75, 3471-3498.	3.6	3
6	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
7	Multimethod optimization in the cloud: A case‐study in systems biology modelling. Concurrency Computation Practice and Experience, 2018, 30, e4488.	2.2	3
8	Towards cloud-based parallel metaheuristics. International Journal of High Performance Computing Applications, 2018, 32, 693-705.	3.7	10
9	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
10	Multimethod Optimization for Reverse Engineering of Complex Biological Networks. , 2018, , .		1
11	Solving Multiple Tridiagonal Systems on a Multi-GPU Platform. , 2018, , .		2
12	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
13	Parameter estimation in large-scale systems biology models: a parallel and self-adaptive cooperative strategy. BMC Bioinformatics, 2017, 18, 52.	2.6	300
14	Using the Cloud for Parameter Estimation Problems: Comparing Spark vs MPI with a Case-Study. , 2017, , .		11
15	Designing Efficient Index-Digit Algorithms for CUDA GPU Architectures. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 1331-1343.	5.6	10
16	Automatic Generation of Optimized OpenCL Codes Using OCLoptimizer. Computer Journal, 2015, 58, 3057-3073.	2.4	5
17	Low‐latency Java communication devices on RDMA‐enabled networks. Concurrency Computation Practice and Experience, 2015, 27, 4852-4879.	2.2	0
18	New Tridiagonal Systems Solvers on GPU Architectures. , 2015, , .		6

#	Article	IF	Citations
19	Efficient Scan Operator Methods on a GPU. , 2014, , .		6
20	FastMPJ: a scalable and efficient Java message-passing library. Cluster Computing, 2014, 17, 1031-1050.	5.0	8
21	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
22	Generalâ€purpose computation on GPUs for high performance cloud computing. Concurrency Computation Practice and Experience, 2013, 25, 1628-1642.	2.2	17
23	Web-GIS tool for the management of rural land markets. Earth Science Informatics, 2013, 6, 209-226.	3.2	8
24	Compiler-Assisted Checkpointing of Parallel Codes: The Cetus and LLVM Experience. International Journal of Parallel Programming, 2013, 41, 782-805.	1.5	1
25	SPLG: A Tuned Signal Processing Library for GPU Architectures. , 2013, , .		0
26	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
27	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
28	Parallel Monte Carlo radiosity using scene partitioning. International Journal of High Performance Computing Applications, 2013, 27, 318-334.	3.7	1
29	Evaluation of Java for General Purpose GPU Computing. , 2013, , .		10
30	Adaptive Set-Granular Cooperative Caching. , 2012, , .		9
31	Using an Analytical Model of Shared Caches for Selecting the Optimal Parallelization Scheme. , 2012, , .		0
32	UPCBLAS: a library for parallel matrix computations in Unified Parallel C. Concurrency Computation Practice and Experience, 2012, 24, 1645-1667.	2.2	8
33	Design of scalable Java message-passing communications over InfiniBand. Journal of Supercomputing, 2012, 61, 141-165.	3.6	4
34	F-MPJ: scalable Java message-passing communications on parallel systems. Journal of Supercomputing, 2012, 60, 117-140.	3.6	30
35	Scalable Java Communication Middleware for Hybrid Shared/Distributed Memory Architectures. , 2011, , .		4
36	Design and Implementation of MapReduce Using the PGAS Programming Model with UPC. , 2011, , .		5

#	Article	IF	Citations
37	Design of efficient Java message-passing collectives on multi-core clusters. Journal of Supercomputing, 2011, 55, 126-154.	3.6	7
38	Parallel hierarchical radiosity on hybrid platforms. Journal of Supercomputing, 2011, 58, 357-366.	3.6	0
39	Device level communication libraries for high-performance computing in Java. Concurrency Computation Practice and Experience, 2011, 23, 2382-2403.	2.2	5
40	CPPC: a compiler-assisted tool for portable checkpointing of message-passing applications. Concurrency Computation Practice and Experience, 2010, 22, 749-766.	2.2	41
41	Address-Independent Estimation of the Worst-Case Memory Performance. IEEE Transactions on Industrial Informatics, 2010, 6, 664-677.	11.3	2
42	Performance Evaluation of Unified Parallel C Collective Communications. , 2009, , .		5
43	NPB-MPJ: NAS Parallel Benchmarks Implementation for Message-Passing in Java. , 2009, , .		15
44	High Performance Java Sockets for Parallel Computing on Clusters. , 2007, , .		4
45	Automated and accurate cache behavior analysis for codes with irregular access patterns. Concurrency Computation Practice and Experience, 2007, 19, 2407-2423.	2.2	14