

Ramon Doallo

List of Publications by Year in descending order

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56
papers

1,172
citations

567281

15
h-index

501196

28
g-index

56
all docs

56
docs citations

56
times ranked

1505
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	High performance genetic algorithm for land use planning. Computers, Environment and Urban Systems, 2013, 37, 45-58.	7.1	87
3	Performance analysis of HPC applications in the cloud. Future Generation Computer Systems, 2013, 29, 218-229.	7.5	85
4	Java in the High Performance Computing arena: Research, practice and experience. Science of Computer Programming, 2013, 78, 425-444.	1.9	70
5	Performance Evaluation of MPI, UPC and OpenMP on Multicore Architectures. Lecture Notes in Computer Science, 2009, , 174-184.	1.3	52
6	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
7	Research Article: A GIS-embedded system to support land consolidation plans in Galicia. International Journal of Geographical Information Science, 2003, 17, 377-396.	4.8	46
8	CPPC: a compiler-assisted tool for portable checkpointing of message-passing applications. Concurrency Computation Practice and Experience, 2010, 22, 749-766.	2.2	41
9	ProtTest-HPC: Fast Selection of Best-Fit Models of Protein Evolution. Lecture Notes in Computer Science, 2011, , 177-184.	1.3	41
10	F-MPJ: scalable Java message-passing communications on parallel systems. Journal of Supercomputing, 2012, 60, 117-140.	3.6	30
11	Java for high performance computing. , 2009, , .		23
12	Implementing Parallel Differential Evolution on Spark. Lecture Notes in Computer Science, 2016, , 75-90.	1.3	23
13	High performance air pollution modeling for a power plant environment. Parallel Computing, 2003, 29, 1763-1790.	2.1	20
14	A cloud-based enhanced differential evolution algorithm for parameter estimation problems in computational systems biology. Cluster Computing, 2017, 20, 1937-1950.	5.0	20
15	Parallel Metaheuristics in Computational Biology: An Asynchronous Cooperative Enhanced Scatter Search Method. Procedia Computer Science, 2015, 51, 630-639.	2.0	17
16	Java Fast Sockets: Enabling high-speed Java communications on high performance clusters. Computer Communications, 2008, 31, 4049-4059.	5.1	16
17	NPB-MPJ: NAS Parallel Benchmarks Implementation for Message-Passing in Java. , 2009, , .		15
18	Analysis of I/O Performance on an Amazon EC2 Cluster Compute and High I/O Platform. Journal of Grid Computing, 2013, 11, 613-631.	3.9	15

#	ARTICLE	IF	CITATIONS
19	Supporting multi-resolution out-of-core rendering of massive LiDAR point clouds through non-redundant data structures. <i>International Journal of Geographical Information Science</i> , 2019, 33, 593-617.	4.8	15
20	Big Data Geospatial Processing for Massive Aerial LiDAR Datasets. <i>Remote Sensing</i> , 2020, 12, 719.	4.0	15
21	Automated and accurate cache behavior analysis for codes with irregular access patterns. <i>Concurrency Computation Practice and Experience</i> , 2007, 19, 2407-2423.	2.2	14
22	A simulated annealing algorithm for zoning in planning using parallel computing. <i>Computers, Environment and Urban Systems</i> , 2016, 59, 95-106.	7.1	14
23	Using the Cloud for Parameter Estimation Problems: Comparing Spark vs MPI with a Case-Study. , 2017, , .		11
24	Precise automatable analytical modeling of the cache behavior of codes with indirections. <i>Transactions on Architecture and Code Optimization</i> , 2007, 4, 16.	2.0	10
25	Accurate prediction of the behavior of multithreaded applications in shared caches. <i>Parallel Computing</i> , 2013, 39, 36-57.	2.1	10
26	Towards cloud-based parallel metaheuristics. <i>International Journal of High Performance Computing Applications</i> , 2018, 32, 693-705.	3.7	10
27	A parallel metaheuristic for large mixed-integer dynamic optimization problems, with applications in computational biology. <i>PLoS ONE</i> , 2017, 12, e0182186.	2.5	10
28	Spark implementation of the enhanced Scatter Search metaheuristic: Methodology and assessment. <i>Swarm and Evolutionary Computation</i> , 2020, 59, 100748.	8.1	9
29	Web-GIS tool for the management of rural land markets. <i>Earth Science Informatics</i> , 2013, 6, 209-226.	3.2	8
30	FastMPJ: a scalable and efficient Java message-passing library. <i>Cluster Computing</i> , 2014, 17, 1031-1050.	5.0	8
31	GVLiDAR: an interactive web-based visualization framework to support geospatial measures on lidar data. <i>International Journal of Remote Sensing</i> , 2017, 38, 827-849.	2.9	8
32	Design of efficient Java message-passing collectives on multi-core clusters. <i>Journal of Supercomputing</i> , 2011, 55, 126-154.	3.6	7
33	Evaluation of messaging middleware for high-performance cloud computing. <i>Personal and Ubiquitous Computing</i> , 2013, 17, 1709-1719.	2.8	7
34	COPA. , 2001, , .		6
35	Device level communication libraries for high-performance computing in Java. <i>Concurrency Computation Practice and Experience</i> , 2011, 23, 2382-2403.	2.2	5
36	Automatic Generation of Optimized OpenCL Codes Using OCLoptimizer. <i>Computer Journal</i> , 2015, 58, 3057-3073.	2.4	5

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37	Optimizing parcel exchange among landowners: A soft alternative to land consolidation. Computers, Environment and Urban Systems, 2020, 79, 101422.	7.1	5
38	High Performance Air Pollution Simulation Using OpenMP. Journal of Supercomputing, 2004, 28, 311-321.	3.6	4
39	Efficient Java Communication Protocols on High-speed Cluster Interconnects. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	4
40	High Performance Java Sockets for Parallel Computing on Clusters. , 2007, , .		4
41	Scalable Java Communication Middleware for Hybrid Shared/Distributed Memory Architectures. , 2011, , .		4
42	Design of scalable Java message-passing communications over InfiniBand. Journal of Supercomputing, 2012, 61, 141-165.	3.6	4
43	Performance Evaluation of Data-Intensive Computing Applications on a Public IaaS Cloud. Computer Journal, 2016, 59, 287-307.	2.4	4
44	Set Associative Cache Behavior Optimization. Lecture Notes in Computer Science, 1999, , 229-238.	1.3	4
45	Land consolidation through parcel exchange among landowners using a distributed Spark-based genetic algorithm. Journal of Supercomputing, 0, , .	3.6	4
46	Modeling set associative caches behavior for irregular computations. Performance Evaluation Review, 1998, 26, 192-201.	0.6	3
47	Multimethod optimization in the cloud: A case study in systems biology modelling. Concurrency Computation Practice and Experience, 2018, 30, e4488.	2.2	3
48	Hybrid parallel multimethod hyperheuristic for mixed-integer dynamic optimization problems in computational systems biology. Journal of Supercomputing, 2019, 75, 3471-3498.	3.6	3
49	A GIS web-based tool for the management of the PGI potato of Galicia. Computers and Electronics in Agriculture, 2004, 44, 161-171.	7.7	2
50	Efficient Java Communication Libraries over InfiniBand. , 2009, , .		2
51	Multimethod Optimization for Reverse Engineering of Complex Biological Networks. , 2018, , .		1
52	An automatic optimizer for heterogeneous devices. Future Generation Computer Systems, 2020, 106, 572-584.	7.5	1
53	Low-latency Java communication devices on RDMA-enabled networks. Concurrency Computation Practice and Experience, 2015, 27, 4852-4879.	2.2	0
54	Air Pollution Modeling in the CrossGrid Project. Lecture Notes in Computer Science, 2004, , 132-139.	1.3	0

#	ARTICLE	IF	CITATIONS
55	Dynamic Load-Balancing for the STEM-II Air Quality Model. Lecture Notes in Computer Science, 2006, , 701-710.	1.3	0
56	Guiding the Optimization of Parallel Codes on Multicores Using an Analytical Cache Model. Lecture Notes in Computer Science, 2018, , 387-394.	1.3	0