Ramon Doallo

List of Publications by Year in descending order

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56	1,172	567281 15	501196 28
papers	citations	h-index	g-index

56	56	56	1505
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimizing parcel exchange among landowners: A soft alternative to land consolidation. Computers, Environment and Urban Systems, 2020, 79, 101422.	7.1	5
2	Spark implementation of the enhanced Scatter Search metaheuristic: Methodology and assessment. Swarm and Evolutionary Computation, 2020, 59, 100748.	8.1	9
3	An automatic optimizer for heterogeneous devices. Future Generation Computer Systems, 2020, 106, 572-584.	7.5	1
4	Big Data Geospatial Processing for Massive Aerial LiDAR Datasets. Remote Sensing, 2020, 12, 719.	4.0	15
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 caseâ€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	Multimethod Optimization for Reverse Engineering of Complex Biological Networks. , 2018, , .		1
10	Guiding the Optimization of Parallel Codes on Multicores Using an Analytical Cache Model. Lecture Notes in Computer Science, 2018, , 387-394.	1.3	0
11	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
12	Parameter estimation in large-scale systems biology models: a parallel and self-adaptive cooperative strategy. BMC Bioinformatics, 2017, 18, 52.	2.6	300
13	A cloud-based enhanced differential evolution algorithm for parameter estimation problems in computational systems biology. Cluster Computing, 2017, 20, 1937-1950.	5.0	20
14	Using the Cloud for Parameter Estimation Problems: Comparing Spark vs MPI with a Case-Study. , 2017, , .		11
15	A parallel metaheuristic for large mixed-integer dynamic optimization problems, with applications in computational biology. PLoS ONE, 2017, 12, e0182186.	2.5	10
16	Implementing Parallel Differential Evolution on Spark. Lecture Notes in Computer Science, 2016, , 75-90.	1.3	23
17	A simulated annealing algorithm for zoning in planning using parallel computing. Computers, Environment and Urban Systems, 2016, 59, 95-106.	7.1	14
18	Performance Evaluation of Data-Intensive Computing Applications on a Public IaaS Cloud. Computer Journal, 2016, 59, 287-307.	2.4	4

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19	Parallel Metaheuristics in Computational Biology: An Asynchronous Cooperative Enhanced Scatter Search Method. Procedia Computer Science, 2015, 51, 630-639.	2.0	17
20	Automatic Generation of Optimized OpenCL Codes Using OCLoptimizer. Computer Journal, 2015, 58, 3057-3073.	2.4	5
21	Lowâ€latency Java communication devices on RDMAâ€enabled networks. Concurrency Computation Practice and Experience, 2015, 27, 4852-4879.	2.2	0
22	FastMPJ: a scalable and efficient Java message-passing library. Cluster Computing, 2014, 17, 1031-1050.	5.0	8
23	Web-GIS tool for the management of rural land markets. Earth Science Informatics, 2013, 6, 209-226.	3.2	8
24	Evaluation of messaging middleware for high-performance cloud computing. Personal and Ubiquitous Computing, 2013, 17, 1709-1719.	2.8	7
25	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
26	Performance analysis of HPC applications in the cloud. Future Generation Computer Systems, 2013, 29, 218-229.	7.5	85
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	Accurate prediction of the behavior of multithreaded applications in shared caches. Parallel Computing, 2013, 39, 36-57.	2.1	10
29	Java in the High Performance Computing arena: Research, practice and experience. Science of Computer Programming, 2013, 78, 425-444.	1.9	70
30	High performance genetic algorithm for land use planning. Computers, Environment and Urban Systems, 2013, 37, 45-58.	7.1	87
31	Design of scalable Java message-passing communications over InfiniBand. Journal of Supercomputing, 2012, 61, 141-165.	3.6	4
32	F-MPJ: scalable Java message-passing communications on parallel systems. Journal of Supercomputing, 2012, 60, 117-140.	3.6	30
33	Scalable Java Communication Middleware for Hybrid Shared/Distributed Memory Architectures. , 2011, , .		4
34	Design of efficient Java message-passing collectives onÂmulti-core clusters. Journal of Supercomputing, 2011, 55, 126-154.	3.6	7
35	Device level communication libraries for highâ€performance computing in Java. Concurrency Computation Practice and Experience, 2011, 23, 2382-2403.	2.2	5
36	ProtTest-HPC: Fast Selection of Best-Fit Models of Protein Evolution. Lecture Notes in Computer Science, 2011, , 177-184.	1.3	41

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37	CPPC: a compilerâ€assisted tool for portable checkpointing of messageâ€passing applications. Concurrency Computation Practice and Experience, 2010, 22, 749-766.	2.2	41
38	Java for high performance computing. , 2009, , .		23
39	NPB-MPJ: NAS Parallel Benchmarks Implementation for Message-Passing in Java. , 2009, , .		15
40	Efficient Java Communication Libraries over InfiniBand. , 2009, , .		2
41	Performance Evaluation of MPI, UPC and OpenMP on Multicore Architectures. Lecture Notes in Computer Science, 2009, , 174-184.	1.3	52
42	Java Fast Sockets: Enabling high-speed Java communications on high performance clusters. Computer Communications, 2008, 31, 4049-4059.	5.1	16
43	High Performance Java Sockets for Parallel Computing on Clusters. , 2007, , .		4
44	Precise automatable analytical modeling of the cache behavior of codes with indirections. Transactions on Architecture and Code Optimization, 2007, 4, 16.	2.0	10
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
46	Efficient Java Communication Protocols on High-speed Cluster Interconnects. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	4
47	Dynamic Load-Balancing for the STEM-II Air Quality Model. Lecture Notes in Computer Science, 2006, , 701-710.	1.3	0
48	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
49	High Performance Air Pollution Simulation Using OpenMP. Journal of Supercomputing, 2004, 28, 311-321.	3.6	4
50	Air Pollution Modeling in the CrossGrid Project. Lecture Notes in Computer Science, 2004, , 132-139.	1.3	0
51	High performance air pollution modeling for a power plant environment. Parallel Computing, 2003, 29, 1763-1790.	2.1	20
52	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
53	COPA. , 2001, , .		6
54	Set Associative Cache Behavior Optimizationâ‹†. Lecture Notes in Computer Science, 1999, , 229-238.	1.3	4

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55	Modeling set associative caches behavior for irregular computations. Performance Evaluation Review, 1998, 26, 192-201.	0.6	3
56	Land consolidation through parcel exchange among landowners using a distributed Spark-based genetic algorithm. Journal of Supercomputing, 0, , .	3.6	4