Guillermo L Taboada

List of Publications by Year
in descending order

61 papers	16,591 citations	623734 14 h-index	315739 38 g-index
61 all docs	61 docs citations	61 times ranked	25024 citing authors

#	Article	IF	Citations
1	jModelTest 2: more models, new heuristics and parallel computing. Nature Methods, 2012, 9, 772-772.	19.0	13,416
2	ProtTest 3: fast selection of best-fit models of protein evolution. Bioinformatics, 2011, 27, 1164-1165.	4.1	2,432
3	Performance analysis of HPC applications in the cloud. Future Generation Computer Systems, 2013, 29, 218-229.	7.5	85
4	jmodeltest.org: selection of nucleotide substitution models on the cloud. Bioinformatics, 2014, 30, 1310-1311.	4.1	79
5	Java in the High Performance Computing arena: Research, practice and experience. Science of Computer Programming, 2013, 78, 425-444.	1.9	70
6	Performance Evaluation of MPI, UPC and OpenMP on Multicore Architectures. Lecture Notes in Computer Science, 2009, , 174-184.	1.3	52
7	ProtTest-HPC: Fast Selection of Best-Fit Models of Protein Evolution. Lecture Notes in Computer Science, 2011, , 177-184.	1.3	41
8	Performance evaluation of big data frameworks for large-scale data analytics. , 2016, , .		37
9	F-MPJ: scalable Java message-passing communications on parallel systems. Journal of Supercomputing, 2012, 60, 117-140.	3.6	30
10	Java for high performance computing. , 2009, , .		23
11	Exploratory Data Analysis and Data Envelopment Analysis of Construction and Demolition Waste Management in the European Economic Area. Sustainability, 2020, 12, 4995.	3.2	20
12	Servet: A benchmark suite for autotuning on multicore clusters. , 2010, , .		18
13	Generalâ€purpose computation on GPUs for high performance cloud computing. Concurrency Computation Practice and Experience, 2013, 25, 1628-1642.	2.2	17
14	Java Fast Sockets: Enabling high-speed Java communications on high performance clusters. Computer Communications, 2008, 31, 4049-4059.	5.1	16
15	Performance analysis of Java message-passing libraries on fast Ethernet, Myrinet and SCI clusters. , 2003, , .		15
16	NPB-MPJ: NAS Parallel Benchmarks Implementation for Message-Passing in Java. , 2009, , .		15
17	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
18	Analysis and evaluation of MapReduce solutions on an HPC cluster. Computers and Electrical Engineering, 2016, 50, 200-216.	4.8	15

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19	Flame-MR: An event-driven architecture for MapReduce applications. Future Generation Computer Systems, 2016, 65, 46-56.	7.5	14
20	Exploratory Data Analysis and Data Envelopment Analysis of Urban Rail Transit. Electronics (Switzerland), 2020, 9, 1270.	3.1	14
21	Automatic mapping of parallel applications on multicore architectures using the Servet benchmark suite. Computers and Electrical Engineering, 2012, 38, 258-269.	4.8	11
22	Evaluation of Java for General Purpose GPU Computing. , 2013, , .		10
23	Evaluation of UPC programmability using classroom studies. , 2009, , .		9
24	UPCBLAS: a library for parallel matrix computations in Unified Parallel C. Concurrency Computation Practice and Experience, 2012, 24, 1645-1667.	2.2	8
25	FastMPJ: a scalable and efficient Java message-passing library. Cluster Computing, 2014, 17, 1031-1050.	5.0	8
26	High Performance Java Remote Method Invocation for Parallel Computing on Clusters. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	7
27	Design of efficient Java message-passing collectives onÂmulti-core clusters. Journal of Supercomputing, 2011, 55, 126-154.	3.6	7
28	Evaluation of messaging middleware for high-performance cloud computing. Personal and Ubiquitous Computing, 2013, 17, 1709-1719.	2.8	7
29	MREv: An Automatic MapReduce Evaluation Tool for Big Data Workloads. Procedia Computer Science, 2015, 51, 80-89.	2.0	7
30	UPC performance evaluation on a multicore system. , 2009, , .		6
31	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
32	Enhancing in-memory efficiency for MapReduce-based data processing. Journal of Parallel and Distributed Computing, 2018, 120, 323-338.	4.1	6
33	Designing Efficient Java Communications on Clusters. , 0, , .		5
34	Performance Evaluation of Unified Parallel C Collective Communications. , 2009, , .		5
35	Design and Implementation of MapReduce Using the PGAS Programming Model with UPC. , 2011, , .		5
36	Device level communication libraries for highâ€performance computing in Java. Concurrency Computation Practice and Experience, 2011, 23, 2382-2403.	2.2	5

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37	Design and Performance Issues of Cholesky and LU Solvers Using UPCBLAS. , 2012, , .		5
38	Efficient Java Communication Protocols on High-speed Cluster Interconnects. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	4
39	High Performance Java Sockets for Parallel Computing on Clusters. , 2007, , .		4
40	Scalable Java Communication Middleware for Hybrid Shared/Distributed Memory Architectures. , 2011, , .		4
41	Dense Triangular Solvers on Multicore Clusters using UPC. Procedia Computer Science, 2011, 4, 231-240.	2.0	4
42	Design of scalable Java message-passing communications over InfiniBand. Journal of Supercomputing, 2012, 61, 141-165.	3.6	4
43	Design of Scalable Java Communication Middleware for Multi-Core Systems. Computer Journal, 2013, 56, 214-228.	2.4	4
44	Performance Evaluation of Data-Intensive Computing Applications on a Public IaaS Cloud. Computer Journal, 2016, 59, 287-307.	2.4	4
45	Scalable PGAS collective operations in NUMA clusters. Cluster Computing, 2014, 17, 1473-1495.	5.0	3
46	MPI and UPC broadcast, scatter and gather algorithms in Xeon Phi. Concurrency Computation Practice and Experience, 2016, 28, 2322-2340.	2.2	3
47	A Parallel Numerical Library for UPC. Lecture Notes in Computer Science, 2009, , 630-641.	1.3	3
48	Efficient Java Communication Libraries over InfiniBand. , 2009, , .		2
49	HPC selection of models of DNA substitution. , 2011, , .		2
50	Performance evaluation of sparse matrix products in UPC. Journal of Supercomputing, 2013, 64, 100-109.	3.6	2
51	The Servet 3.0 benchmark suite: Characterization of network performance degradation. Computers and Electrical Engineering, 2013, 39, 2483-2493.	4.8	2
52	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
53	Parallel Brownian dynamics simulations with the message-passing and PGAS programming models. Computer Physics Communications, 2013, 184, 1191-1202.	7.5	2
54	Parallel simulation of Brownian dynamics on shared memory systems with OpenMP and Unified Parallel C. Journal of Supercomputing, 2013, 65, 1050-1062.	3.6	1

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55	An efficient framework for Java data processing systems in HPC environments. Proceedings of SPIE, 2011, , .	0.8	0
56	A Java-based parallel genetic algorithm for the land use planning problem. , 2011, , .		0
57	The HPS3 Service: Reduction of Cost and Transfer Time for Storing Data on Clouds. , 2014, , .		0
58	Lowâ€latency Java communication devices on RDMAâ€enabled networks. Concurrency Computation Practice and Experience, 2015, 27, 4852-4879.	2.2	0
59	Nonblocking collectives for scalable Java communications. Concurrency Computation Practice and Experience, 2015, 27, 1169-1187.	2.2	0
60	Performance Modeling and Evaluation of Java Message-Passing Primitives on a Cluster. Lecture Notes in Computer Science, 2003, , 29-36.	1.3	0
61	Non-blocking Java Communications Support on Clusters. Lecture Notes in Computer Science, 2006, , 256-265.	1.3	0