

Guillermo L Taboada

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5402039/publications.pdf>

Version: 2024-02-01

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	Exploratory Data Analysis and Data Envelopment Analysis of Urban Rail Transit. Electronics (Switzerland), 2020, 9, 1270.	3.1	14
2	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
3	Enhancing in-memory efficiency for MapReduce-based data processing. Journal of Parallel and Distributed Computing, 2018, 120, 323-338.	4.1	6
4	Flame-MR: An event-driven architecture for MapReduce applications. Future Generation Computer Systems, 2016, 65, 46-56.	7.5	14
5	Performance evaluation of big data frameworks for large-scale data analytics. , 2016, , .		37
6	MPI and UPC broadcast, scatter and gather algorithms in Xeon Phi. Concurrency Computation Practice and Experience, 2016, 28, 2322-2340.	2.2	3
7	Performance Evaluation of Data-Intensive Computing Applications on a Public IaaS Cloud. Computer Journal, 2016, 59, 287-307.	2.4	4
8	Analysis and evaluation of MapReduce solutions on an HPC cluster. Computers and Electrical Engineering, 2016, 50, 200-216.	4.8	15
9	Low-latency Java communication devices on RDMA-enabled networks. Concurrency Computation Practice and Experience, 2015, 27, 4852-4879.	2.2	0
10	Nonblocking collectives for scalable Java communications. Concurrency Computation Practice and Experience, 2015, 27, 1169-1187.	2.2	0
11	MREv: An Automatic MapReduce Evaluation Tool for Big Data Workloads. Procedia Computer Science, 2015, 51, 80-89.	2.0	7
12	<i>jmodeltest</i> .org: selection of nucleotide substitution models on the cloud. Bioinformatics, 2014, 30, 1310-1311.	4.1	79
13	The HPS3 Service: Reduction of Cost and Transfer Time for Storing Data on Clouds. , 2014, , .		0
14	FastMPI: a scalable and efficient Java message-passing library. Cluster Computing, 2014, 17, 1031-1050.	5.0	8
15	Scalable PGAS collective operations in NUMA clusters. Cluster Computing, 2014, 17, 1473-1495.	5.0	3
16	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
17	General-purpose computation on GPUs for high performance cloud computing. Concurrency Computation Practice and Experience, 2013, 25, 1628-1642.	2.2	17
18	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

#	ARTICLE	IF	CITATIONS
19	Performance evaluation of sparse matrix products in UPC. Journal of Supercomputing, 2013, 64, 100-109.	3.6	2
20	Evaluation of messaging middleware for high-performance cloud computing. Personal and Ubiquitous Computing, 2013, 17, 1709-1719.	2.8	7
21	The Servet 3.0 benchmark suite: Characterization of network performance degradation. Computers and Electrical Engineering, 2013, 39, 2483-2493.	4.8	2
22	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
23	Performance analysis of HPC applications in the cloud. Future Generation Computer Systems, 2013, 29, 218-229.	7.5	85
24	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
25	Parallel Brownian dynamics simulations with the message-passing and PGAS programming models. Computer Physics Communications, 2013, 184, 1191-1202.	7.5	2
26	Java in the High Performance Computing arena: Research, practice and experience. Science of Computer Programming, 2013, 78, 425-444.	1.9	70
27	Design of Scalable Java Communication Middleware for Multi-Core Systems. Computer Journal, 2013, 56, 214-228.	2.4	4
28	Evaluation of Java for General Purpose GPU Computing. , 2013, , .		10
29	Design and Performance Issues of Cholesky and LU Solvers Using UPCBLAS. , 2012, , .		5
30	jModelTest 2: more models, new heuristics and parallel computing. Nature Methods, 2012, 9, 772-772.	19.0	13,416
31	UPCBLAS: a library for parallel matrix computations in Unified Parallel C. Concurrency Computation Practice and Experience, 2012, 24, 1645-1667.	2.2	8
32	Design of scalable Java message-passing communications over InfiniBand. Journal of Supercomputing, 2012, 61, 141-165.	3.6	4
33	Automatic mapping of parallel applications on multicore architectures using the Servet benchmark suite. Computers and Electrical Engineering, 2012, 38, 258-269.	4.8	11
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	An efficient framework for Java data processing systems in HPC environments. Proceedings of SPIE, 2011, , .	0.8	0
38	Design of efficient Java message-passing collectives on multi-core clusters. Journal of Supercomputing, 2011, 55, 126-154.	3.6	7
39	Device level communication libraries for high performance computing in Java. Concurrency Computation Practice and Experience, 2011, 23, 2382-2403.	2.2	5
40	Dense Triangular Solvers on Multicore Clusters using UPC. Procedia Computer Science, 2011, 4, 231-240.	2.0	4
41	A Java-based parallel genetic algorithm for the land use planning problem. , 2011, , .		0
42	HPC selection of models of DNA substitution. , 2011, , .		2
43	ProtTest 3: fast selection of best-fit models of protein evolution. Bioinformatics, 2011, 27, 1164-1165.	4.1	2,432
44	ProtTest-HPC: Fast Selection of Best-Fit Models of Protein Evolution. Lecture Notes in Computer Science, 2011, , 177-184.	1.3	41
45	Servet: A benchmark suite for autotuning on multicore clusters. , 2010, , .		18
46	Performance Evaluation of Unified Parallel C Collective Communications. , 2009, , .		5
47	Evaluation of UPC programmability using classroom studies. , 2009, , .		9
48	UPC performance evaluation on a multicore system. , 2009, , .		6
49	Java for high performance computing. , 2009, , .		23
50	NPB-MPJ: NAS Parallel Benchmarks Implementation for Message-Passing in Java. , 2009, , .		15
51	Efficient Java Communication Libraries over InfiniBand. , 2009, , .		2
52	Performance Evaluation of MPI, UPC and OpenMP on Multicore Architectures. Lecture Notes in Computer Science, 2009, , 174-184.	1.3	52
53	A Parallel Numerical Library for UPC. Lecture Notes in Computer Science, 2009, , 630-641.	1.3	3
54	Java Fast Sockets: Enabling high-speed Java communications on high performance clusters. Computer Communications, 2008, 31, 4049-4059.	5.1	16

#	ARTICLE	IF	CITATIONS
55	High Performance Java Sockets for Parallel Computing on Clusters. , 2007, , .		4
56	High Performance Java Remote Method Invocation for Parallel Computing on Clusters. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	7
57	Efficient Java Communication Protocols on High-speed Cluster Interconnects. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	4
58	Non-blocking Java Communications Support on Clusters. Lecture Notes in Computer Science, 2006, , 256-265.	1.3	0
59	Performance analysis of Java message-passing libraries on fast Ethernet, Myrinet and SCI clusters. , 2003, , .		15
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	Designing Efficient Java Communications on Clusters. , 0, , .		5