

# Jose Miguel-Alonso

## List of Publications by Year in descending order

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55  
papers

1,068  
citations

623574

14  
h-index

434063

31  
g-index

57  
all docs

57  
docs citations

57  
times ranked

974  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Auto-scaling Techniques for Elastic Applications in Cloud Environments. Journal of Grid Computing, 2014, 12, 559-592.	2.5	470
2	Survey of Network Intrusion Detection Methods From the Perspective of the Knowledge Discovery in Databases Process. IEEE Transactions on Network and Service Management, 2020, 17, 2451-2479.	3.2	46
3	Parallel Implementation of EDAs Based on Probabilistic Graphical Models. IEEE Transactions on Evolutionary Computation, 2005, 9, 406-423.	7.5	44
4	Twisted Torus Topologies for Enhanced Interconnection Networks. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1765-1778.	4.0	39
5	A Survey of Performance Modeling and Simulation Techniques for Accelerator-Based Computing. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 272-281.	4.0	39
6	INSEE: An Interconnection Network Simulation and Evaluation Environment. Lecture Notes in Computer Science, 2005, , 1014-1023.	1.0	35
7	Understanding the interconnection network of SpiNNaker. , 2009, , .		34
8	Simulating and evaluating interconnection networks with INSEE. Simulation Modelling Practice and Theory, 2011, 19, 494-515.	2.2	31
9	Towards a Greener Cloud Infrastructure Management using Optimized Placement Policies. Journal of Grid Computing, 2015, 13, 375-389.	2.5	26
10	Reducing complexity in tree-like computer interconnection networks. Parallel Computing, 2010, 36, 71-85.	1.3	25
11	Effects of Topology-Aware Allocation Policies on Scheduling Performance. Lecture Notes in Computer Science, 2009, , 138-156.	1.0	22
12	Interconnection Network Simulation Using Traces of MPI Applications. International Journal of Parallel Programming, 2009, 37, 153-174.	1.1	18
13	Parallel EDAs to create multivariate calibration models for quantitative chemical applications. Journal of Parallel and Distributed Computing, 2006, 66, 1002-1013.	2.7	17
14	Optimization-based mapping framework for parallel applications. Journal of Parallel and Distributed Computing, 2011, 71, 1377-1387.	2.7	16
15	Effects of Job and Task Placement on Parallel Scientific Applications Performance. , 2009, , .		15
16	Improving the performance of large interconnection networks using congestion-control mechanisms. Performance Evaluation, 2008, 65, 203-211.	0.9	14
17	On synthesizing workloads emulating MPI applications. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	11
18	Towards Autonomous Defense of SDN Networks Using MuZero Based Intelligent Agents. IEEE Access, 2021, 9, 107184-107199.	2.6	11

#	ARTICLE	IF	CITATIONS
19	Chordal Topologies for Interconnection Networks. Lecture Notes in Computer Science, 2003, , 385-392.	1.0	11
20	An efficient implementation of kernel density estimation for multi-core and many-core architectures. International Journal of High Performance Computing Applications, 2015, 29, 331-347.	2.4	10
21	SpiNNaker: Fault tolerance in a power- and area- constrained large-scale neuromimetic architecture. Parallel Computing, 2013, 39, 693-708.	1.3	9
22	Mixed-radix Twisted Torus Interconnection Networks. , 2007, , .		8
23	SpiNNaker. , 2010, , .		8
24	Modeling the availability of Cassandra. Journal of Parallel and Distributed Computing, 2015, 86, 29-44.	2.7	8
25	Multi-objective environmental model evaluation by means of multidimensional kernel density estimators: Efficient and multi-core implementations. Environmental Modelling and Software, 2015, 63, 123-136.	1.9	8
26	TrGen: A Traffic Generation System for Interconnection Network Simulators. , 0, , .		7
27	Effects of injection pressure on network throughput. , 2006, , .		7
28	Managing Burstiness and Scalability in Event-Driven Models on the SpiNNaker Neuromimetic System. International Journal of Parallel Programming, 2012, 40, 553-582.	1.1	7
29	High throughput computing over peer-to-peer networks. Future Generation Computer Systems, 2013, 29, 352-360.	4.9	7
30	Evaluation of Interconnection Networks Using Full-System Simulators: Lessons Learned. , 2007, , .		6
31	Benchmarking Object Detection Deep Learning Models in Embedded Devices. Sensors, 2022, 22, 4205.	2.1	5
32	IMPLEMENTATION AND PERFORMANCE EVALUATION OF A PARALLELIZATION OF ESTIMATION OF BAYESIAN NETWORK ALGORITHMS. Parallel Processing Letters, 2006, 16, 133-148.	0.4	4
33	Event-Driven Configuration of a Neural Network CMP System over a Homogeneous Interconnect Fabric. , 2009, , .		4
34	Realistic Evaluation of Interconnection Networks Using Synthetic Traffic. , 2009, , .		4
35	Locality-aware policies to improve job scheduling on 3D tori. Journal of Supercomputing, 2015, 71, 966-994.	2.4	4
36	Strategies to Map Parallel Applications onto Meshes. Advances in Intelligent and Soft Computing, 2010, , 197-204.	0.2	4

#	ARTICLE	IF	CITATIONS
37	An evaluation of implementations of the CMB parallel simulation algorithm on distributed memory multicomputers. <i>Journal of Systems Architecture</i> , 1998, 44, 519-545.	2.5	3
38	Event-driven configuration of a neural network CMP system over an homogeneous interconnect fabric. <i>Parallel Computing</i> , 2011, 37, 392-409.	1.3	3
39	Analytical Assessment of the Suitability of Multicast Communications for the SpiNNaker Neuromimetic System. , 2012, , .		3
40	Application-aware metrics for partition selection in cube-shaped topologies. <i>Parallel Computing</i> , 2014, 40, 129-139.	1.3	3
41	A network-computing infrastructure for tool experimentation applied to computer architecture education. , 2000, , .		2
42	Full-system simulation of distributed memory multicomputers. <i>Cluster Computing</i> , 2009, 12, 309-322.	3.5	2
43	A fast implementation of the first fit contiguous partitioning strategy for cubic topologies. <i>Concurrency Computation Practice and Experience</i> , 2014, 26, 2792-2810.	1.4	2
44	Kernel density estimation in accelerators. <i>Journal of Supercomputing</i> , 2016, 72, 545-566.	2.4	2
45	A Review on Parallel Estimation of Distribution Algorithms. <i>Studies in Computational Intelligence</i> , 2010, , 143-163.	0.7	2
46	Evaluating the cell broadband engine as a platform to run estimation of distribution algorithms. , 2009, , .		1
47	Porting Estimation of Distribution Algorithms to the Cell Broadband Engine. <i>Parallel Computing</i> , 2010, 36, 618-634.	1.3	1
48	Indirect cube: A power-efficient topology for compute clusters. <i>Optical Switching and Networking</i> , 2011, 8, 162-170.	1.2	1
49	Competition-based failure-aware scheduling for High-Throughput Computing systems on peer-to-peer networks. <i>Cluster Computing</i> , 2015, 18, 1229-1249.	3.5	1
50	Effects of Reducing VMs Management Times on Elastic Applications. <i>Journal of Grid Computing</i> , 2018, 16, 513-530.	2.5	1
51	A Reconfigurable Monitoring System for Large-Scale Network Computing. <i>Lecture Notes in Computer Science</i> , 2003, , 98-108.	1.0	1
52	Analyzing the Performance of Allocation Strategies Based on Space-Filling Curves. <i>Lecture Notes in Computer Science</i> , 2017, , 232-251.	1.0	1
53	Parallel and Multi-Objective EDAs to Create Multivariate Calibration Models for Quantitative Chemical Applications. , 0, , .		0
54	Evaluation of Parallel EDAs to Create Chemical Calibration Models. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
55	Concepts and components of full-system simulation of distributed memory parallel computers. , 2007, , ·		0