

Henri Casanova

List of Publications by Year in descending order

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61
papers

1,523
citations

623734

14
h-index

552781

26
g-index

61
all docs

61
docs citations

61
times ranked

1042
citing authors

#	ARTICLE	IF	CITATIONS
1	Versatile, scalable, and accurate simulation of distributed applications and platforms. Journal of Parallel and Distributed Computing, 2014, 74, 2899-2917.	4.1	276
2	SimGrid: A Generic Framework for Large-Scale Distributed Experiments. , 2008, , .		263
3	Resource allocation algorithms for virtualized service hosting platforms. Journal of Parallel and Distributed Computing, 2010, 70, 962-974.	4.1	167
4	Energy-aware service allocation. Future Generation Computer Systems, 2012, 28, 769-779.	7.5	59
5	A Comparison of Scheduling Approaches for Mixed-Parallel Applications on Heterogeneous Platforms. , 2007, , .		57
6	On the validity of flow-level tcp network models for grid and cloud simulations. ACM Transactions on Modeling and Computer Simulation, 2013, 23, 1-26.	0.8	56
7	Resource Allocation Using Virtual Clusters. , 2009, , .		47
8	Scheduling Parallel Task Graphs on (Almost) Homogeneous Multiclustler Platforms. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 940-952.	5.6	43
9	Virtual Machine Resource Allocation for Service Hosting on Heterogeneous Distributed Platforms. , 2012, , .		38
10	Scheduling Task Parallel Applications for Rapid Turnaround on Enterprise Desktop Grids. Journal of Grid Computing, 2007, 5, 379-405.	3.9	37
11	Developing accurate and scalable simulators of production workflow management systems with WRENCH. Future Generation Computer Systems, 2020, 112, 162-175.	7.5	32
12	Scheduling mixed-parallel applications with advance reservations. , 2008, , .		31
13	Benefits and Drawbacks of Redundant Batch Requests. Journal of Grid Computing, 2007, 5, 235-250.	3.9	30
14	Single Node On-Line Simulation of MPI Applications with SMPI. , 2011, , .		29
15	On cluster resource allocation for multiple parallel task graphs. Journal of Parallel and Distributed Computing, 2010, 70, 1193-1203.	4.1	28
16	Speed and Accuracy of Network Simulation in the SimGrid Framework. , 2007, , .		22
17	Fast and scalable simulation of volunteer computing systems using SimGrid. , 2010, , .		20
18	Checkpointing vs. Migration for Post-Petascale Supercomputers. , 2010, , .		19

#	ARTICLE	IF	CITATIONS
19	Distance Threshold Similarity Searches: Efficient Trajectory Indexing on the GPU. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2533-2545.	5.6	19
20	PREVENTIVE MIGRATION VS. PREVENTIVE CHECKPOINTING FOR EXTREME SCALE SUPERCOMPUTERS. Parallel Processing Letters, 2011, 21, 111-132.	0.6	18
21	WfCommons: A framework for enabling scientific workflow research and development. Future Generation Computer Systems, 2022, 128, 16-27.	7.5	18
22	Swap-And-Randomize: A Method for Building Low-Latency HPC Interconnects. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2051-2060.	5.6	15
23	Scheduling mixed-parallel applications with advance reservations. Cluster Computing, 2009, 12, 205-220.	5.0	14
24	On the impact of process replication on executions of large-scale parallel applications with coordinated checkpointing. Future Generation Computer Systems, 2015, 51, 7-19.	7.5	14
25	A Community Roadmap for Scientific Workflows Research and Development. , 2021, , .		14
26	WRENCH: A Framework for Simulating Workflow Management Systems. , 2018, , .		12
27	Checkpointing Workflows for Fail-Stop Errors. IEEE Transactions on Computers, 2018, , 1-1.	3.4	11
28	Simulation of MPI applications with time-independent traces. Concurrency Computation Practice and Experience, 2015, 27, 1145-1168.	2.2	10
29	Improving Grid Resource Allocation via Integrated Selection and Binding. , 2006, , .		9
30	Characterizing, Modeling, and Accurately Simulating Power and Energy Consumption of I/O-intensive Scientific Workflows. Journal of Computational Science, 2020, 44, 101157.	2.9	9
31	Resource allocation strategies for constructive in-network stream processing. , 2009, , .		8
32	Indexing of Spatiotemporal Trajectories for Efficient Distance Threshold Similarity Searches on the GPU. , 2015, , .		8
33	Distance threshold similarity searches on spatiotemporal trajectories using GPGPU. , 2014, , .		7
34	Beyond Binary Search: Parallel In-Place Construction of Implicit Search Tree Layouts. , 2018, , .		7
35	Teaching Parallel and Distributed Computing Concepts in Simulation with WRENCH. , 2019, , .		7
36	MILP formulations for spatio-temporal thermal-aware scheduling in Cloud and HPC datacenters. Cluster Computing, 2020, 23, 421-439.	5.0	7

#	ARTICLE	IF	CITATIONS
37	WorkflowHub: Community Framework for Enabling Scientific Workflow Research and Development. , 2020, , .		7
38	Accurately Simulating Energy Consumption of I/O-Intensive Scientific Workflows. Lecture Notes in Computer Science, 2019, , 138-152.	1.3	5
39	Resource allocation for multiple concurrent in-network stream-processing applications. Parallel Computing, 2011, 37, 331-348.	2.1	4
40	Efficient Batched Predecessor Search in Shared Memory on GPUs. , 2015, , .		4
41	SMPI Courseware: Teaching Distributed-Memory Computing with MPI in Simulation. , 2018, , .		4
42	Teaching parallel and distributed computing concepts in simulation with WRENCH. Journal of Parallel and Distributed Computing, 2021, 156, 53-63.	4.1	4
43	Minimizing Stretch and Makespan of Multiple Parallel Task Graphs via Malleable Allocations. , 2010, , .		3
44	From Simulation to Experiment: A Case Study on Multiprocessor Task Scheduling. , 2011, , .		3
45	Selecting linear algebra kernel composition using response time prediction. Software - Practice and Experience, 2015, 45, 1659-1676.	3.6	3
46	WfChef: Automated Generation of Accurate Scientific Workflow Generators. , 2021, , .		3
47	Modeling the Performance of Scientific Workflow Executions on HPC Platforms with Burst Buffers. , 2020, , .		3
48	Peachy Parallel Assignments (EduHPC 2020). , 2020, , .		3
49	Peachy Parallel Assignments (EduHPC 2021). , 2021, , .		3
50	On Resource Volatility in Enterprise Desktop Grids. , 2006, , .		2
51	Toward More Scalable Off-Line Simulations of MPI Applications. Parallel Processing Letters, 2015, 25, 1541002.	0.6	2
52	Towards Ideal Hop Counts in Interconnection Networks with Arbitrary Size. , 2016, , .		2
53	Computing the Expected Makespan of Task Graphs in the Presence of Silent Errors. , 2016, , .		2
54	Beyond Binary Search: Parallel In-Place Construction of Implicit Search Tree Layouts. IEEE Transactions on Computers, 2022, 71, 1104-1116.	3.4	2

#	ARTICLE	IF	CITATIONS
55	A Case for Uni-directional Network Topologies in Large-Scale Clusters. , 2017, , .		1
56	Evaluating Energy-Aware Scheduling Algorithms for I/O-Intensive Scientific Workflows. Lecture Notes in Computer Science, 2021, , 183-197.	1.3	1
57	Emerging Frameworks for Advancing Scientific Workflows Research, Development, and Education. , 2021, , .		1
58	Computing the expected makespan of task graphs in the presence of silent errors. Parallel Computing, 2018, 75, 41-60.	2.1	0
59	Bridging Concepts and Practice in eScience via Simulation-Driven Engineering. , 2019, , .		0
60	GLUME: A Strategy for Reducing Workflow Execution Times on Batch-Scheduled Platforms. Lecture Notes in Computer Science, 2021, , 210-230.	1.3	0
61	Lightning Talks of EduHPC 2020. , 2020, , .		0