Valerie Taylor

List of Publications by Year
in descending order

30 papers	575 citations	933447 10 h-index	1199594 12 g-index
30 all docs	30 docs citations	30 times ranked	438 citing authors

#	Article	IF	Citations
1	Using Run-Time Predictions to Estimate Queue Wait Times and Improve Scheduler Performance. Lecture Notes in Computer Science, 1999, , 202-219.	1.3	133
2	Predicting application run times with historical information. Journal of Parallel and Distributed Computing, 2004, 64, 1007-1016.	4.1	98
3	Prophesy. Performance Evaluation Review, 2003, 30, 13-18.	0.6	73
4	Power-aware predictive models of hybrid (MPI/OpenMP) scientific applications on multicore systems. Computer Science - Research and Development, 2012, 27, 245-253.	2.7	43
5	Energy and performance characteristics of different parallel implementations of scientific applications on multicore systems. International Journal of High Performance Computing Applications, 2011, 25, 342-350.	3.7	32
6	Performance projection of HPC applications using SPEC CFP2006 benchmarks. , 2009, , .		29
7	Using Performance-Power Modeling to Improve Energy Efficiency of HPC Applications. Computer, 2016, 49, 20-29.	1.1	24
8	E-AMOM: an energy-aware modeling and optimization methodology for scientific applications. Computer Science - Research and Development, 2014, 29, 197-210.	2.7	22
9	Performance modeling of hybrid MPI/OpenMP scientific applications on large-scale multicore supercomputers. Journal of Computer and System Sciences, 2013, 79, 1256-1268.	1.2	17
10	SKOPE. , 2014, , .		15
11	Performance Analysis and Optimization of Parallel Scientific Applications on CMP Cluster Systems. Parallel Processing (ICPP),Workshop, Proceedings of the International Conference on, 2008, , .	0.0	12
12	Performance Characteristics of Hybrid MPI/OpenMP Implementations of NAS Parallel Benchmarks SP and BT on Large-Scale Multicore Clusters. Computer Journal, 2012, 55, 154-167.	2.4	12
13	Utilizing Hardware Performance Counters to Model and Optimize the Energy and Performance of Large Scale Scientific Applications on Power-Aware Supercomputers. , 2016, , .		11
14	Multijunction Fault-Tolerance Architecture for Nanoscale Crossbar Memories. IEEE Nanotechnology Magazine, 2008, 7, 202-208.	2.0	7
15	Parallel Simulations of Dynamic Earthquake Rupture along Geometrically Complex Faults on CMP Systems. Journal of Algorithms and Computational Technology, 2011, 5, 313-340.	0.7	7
16	Performance Analysis, Modeling and Prediction of a Parallel Multiblock Lattice Boltzmann Application Using Prophesy System. , 2006, , .		6
17	SWAPP: A Framework for Performance Projections of HPC Applications Using Benchmarks. , 2012, , .		6
18	MuMMI: Multiple Metrics Modeling Infrastructure. , 2013, , .		6

#	Article	IF	Citations
19	Performance Modeling of Hybrid MPI/OpenMP Scientific Applications on Large-scale Multicore Cluster Systems. , 2011, , .		5
20	MuMMI. , 2013, , .		5
21	Parallel Earthquake Simulations on Large-Scale Multicore Supercomputers. , 2011, , 539-562.		4
22	Power and performance characteristics of CORAL Scalable Science Benchmarks on BlueGene/Q Mira. , 2015, , .		2
23	MuMMI: Multiple Metrics Modeling Infrastructure. , 2014, , 53-65.		2
24	Performance and reliability analysis of a scaled multi-switch junction crossbar nanomemory and demultiplexer. , 2007, , .		1
25	Performance Analysis of Parallel Visualization Applications and Scientific Applications on an Optical Grid. , 2008, , .		1
26	An OpenMP Approach to Modeling Dynamic Earthquake Rupture Along Geometrically Complex Faults on CMP Systems. , 2009, , .		1
27	Performance Characteristics of Hybrid MPI/OpenMP Scientific Applications on a Large-Scale Multithreaded BlueGene/Q Supercomputer. , 2013, , .		1
28	Performance analysis of a fault-tolerant crossbar molecular switch memory demultiplexer. , 2006, , .		0
29	Error Correction Code Multi-Switch Junction Crossbar Nanomemory Demultiplexer: Performance and Reliability Analysis. , 2008, , .		0
30	Parallel Optical Flow Processing of 4D Cardiac CT Data on Multicore Clusters. , 2014, , .		0