Xingfu Wu

List of Publications by Year
in descending order

24 papers	226 citations	1478505 6 h-index	1872680 6 g-index
24 all docs	24 docs citations	24 times ranked	162 citing authors

#	Article	IF	Citations
1	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
2	Performance projection of HPC applications using SPEC CFP2006 benchmarks. , 2009, , .		29
3	Using Performance-Power Modeling to Improve Energy Efficiency of HPC Applications. Computer, 2016, 49, 20-29.	1.1	24
4	E-AMOM: an energy-aware modeling and optimization methodology for scientific applications. Computer Science - Research and Development, 2014, 29, 197-210.	2.7	22
5	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
6	Utilizing Hardware Performance Counters to Model and Optimize the Energy and Performance of Large Scale Scientific Applications on Power-Aware Supercomputers. , 2016, , .		11
7	Performance, Energy, and Scalability Analysis and Improvement of Parallel Cancer Deep Learning CANDLE Benchmarks. , 2019, , .		11
8	Autotuning PolyBench benchmarks with LLVM Clang/Polly loop optimization pragmas using Bayesian optimization. Concurrency Computation Practice and Experience, 2022, 34, e6683.	2.2	9
9	An Energy Efficient Demand-Response Model for High Performance Computing Systems. , 2017, , .		8
10	Autotuning PolyBench Benchmarks with LLVM Clang/Polly Loop Optimization Pragmas Using Bayesian Optimization. , 2020, , .		8
11	Toward an End-to-End Auto-tuning Framework in HPC PowerStack. , 2020, , .		8
12	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
13	Performance Analysis, Modeling and Prediction of a Parallel Multiblock Lattice Boltzmann Application Using Prophesy System. , 2006, , .		6
14	SWAPP: A Framework for Performance Projections of HPC Applications Using Benchmarks. , 2012, , .		6
15	MuMMI: Multiple Metrics Modeling Infrastructure. , 2013, , .		6
16	Performance Modeling of Hybrid MPI/OpenMP Scientific Applications on Large-scale Multicore Cluster Systems. , 2011, , .		5
17	Autotuning Search Space for Loop Transformations. , 2020, , .		4
18	Power and performance characteristics of CORAL Scalable Science Benchmarks on BlueGene/Q Mira. , 2015, , .		2

#	Article	IF	Citations
19	Utilizing ensemble learning for performance and power modeling and improvement of parallel cancer deep learning CANDLE benchmarks. Concurrency Computation Practice and Experience, 0, , e6516.	2.2	2
20	Performance Analysis of Parallel Visualization Applications and Scientific Applications on an Optical Grid. , 2008, , .		1
21	An OpenMP Approach to Modeling Dynamic Earthquake Rupture Along Geometrically Complex Faults on CMP Systems. , 2009, , .		1
22	Performance Characteristics of Hybrid MPI/OpenMP Scientific Applications on a Large-Scale Multithreaded BlueGene/Q Supercomputer. , 2013, , .		1
23	Parallel Optical Flow Processing of 4D Cardiac CT Data on Multicore Clusters. , 2014, , .		0
24	Performance and Energy Improvement of ECP Proxy App SW4lite under Various Workloads. , 2021, , .		0