## Jagannathan Ramanujam

List of Publications by Year in descending order

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471509 454955 36 1,088 17 citations h-index papers

g-index 36 36 36 615 docs citations times ranked citing authors all docs

30

#	Article	IF	CITATIONS
1	Tiling multidimensional iteration spaces for multicomputers. Journal of Parallel and Distributed Computing, 1992, 16, 108-120.	4.1	138
2	Compile-time techniques for data distribution in distributed memory machines. IEEE Transactions on Parallel and Distributed Systems, 1991, 2, 472-482.	5 <b>.</b> 6	130
3	Automatic code generation for many-body electronic structure methods: the tensor contraction engine $\hat{a} \in \hat{a}$ . Molecular Physics, 2006, 104, 211-228.	1.7	104
4	Improving cache locality by a combination of loop and data transformations. IEEE Transactions on Computers, 1999, 48, 159-167.	3.4	96
5	Task allocation onto a hypercube by recursive mincut bipartitioning. Journal of Parallel and Distributed Computing, 1990, 10, 35-44.	4.1	66
6	Cluster partitioning approaches to mapping parallel programs onto a hypercube. Parallel Computing, 1990, 13, 1-16.	2.1	62
7	Efficient algorithms for array redistribution. IEEE Transactions on Parallel and Distributed Systems, 1996, 7, 587-594.	5 <b>.</b> 6	61
8	Assessing the similarity of ligand binding conformations with the Contact Mode Score. Computational Biology and Chemistry, 2016, 64, 403-413.	2.3	45
9	Compiler-directed scratch pad memory optimization for embedded multiprocessors. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2004, 12, 281-287.	3.1	36
10	Loop transformations. ACM SIGPLAN Notices, 2011, 46, 549-562.	0.2	32
11	Beyond unimodular transformations. Journal of Supercomputing, 1995, 9, 365-389.	3.6	27
12	Efficient Computation of Address Sequences in Data Parallel Programs Using Closed Forms for Basis Vectors. Journal of Parallel and Distributed Computing, 1996, 38, 188-203.	4.1	26
13	Performance Optimization of Tensor Contraction Expressions for Many-Body Methods in Quantum Chemistry. Journal of Physical Chemistry A, 2009, 113, 12715-12723.	2.5	24
14	GeauxDock: Accelerating Structure-Based Virtual Screening with Heterogeneous Computing. PLoS ONE, 2016, 11, e0158898.	2.5	22
15	A layout-conscious iteration space transformation technique. IEEE Transactions on Computers, 2001, 50, 1321-1335.	3.4	21
16	A unified framework for optimizing locality, parallelism, and communication in out-of-core computations. IEEE Transactions on Parallel and Distributed Systems, 2000, 11, 648-668.	5.6	20
17	Compilation techniques for out-of-core parallel computations. Parallel Computing, 1998, 24, 597-628.	2.1	19
18	Compiler-assisted dynamic scheduling for effective parallelization of loop nests on multicore processors. ACM SIGPLAN Notices, 2009, 44, 219-228.	0.2	19

#	Article	IF	Citations
19	Parallel tempering simulation of the three-dimensional Edwards–Anderson model with compact asynchronous multispin coding on GPU. Computer Physics Communications, 2014, 185, 2467-2478.	<b>7.</b> 5	17
20	A Matrix-Based Approach to Global Locality Optimization. Journal of Parallel and Distributed Computing, 1999, 58, 190-235.	4.1	15
21	Decoupling interaction hardware design using libraries of reusable electronics. , 2009, , .		14
22	Empirical performance model-driven data layout optimization and library call selection for tensor contraction expressions. Journal of Parallel and Distributed Computing, 2012, 72, 338-352.	4.1	13
23	Compilation and Communication Strategies for Out-of-Core Programs on Distributed Memory Machines. Journal of Parallel and Distributed Computing, 1996, 38, 277-288.	4.1	10
24	GeauxDock: A novel approach for mixedâ€resolution ligand docking using a descriptorâ€based force field. Journal of Computational Chemistry, 2015, 36, 2013-2026.	3.3	10
25	Strengthening spatial reasoning: elucidating the attentional and neural mechanisms associated with mental rotation skill development. Cognitive Research: Principles and Implications, 2020, 5, 20.	2.0	10
26	Minimizing data and synchronization costs in one-way communication. IEEE Transactions on Parallel and Distributed Systems, 2000, 11, 1232-1251.	5.6	9
27	Static and dynamic locality optimizations using integer linear programming. IEEE Transactions on Parallel and Distributed Systems, 2001, 12, 922-941.	5.6	9
28	Compiler Algorithms for Optimizing Locality and Parallelism on Shared and Distributed-Memory Machines. Journal of Parallel and Distributed Computing, 2000, 60, 924-965.	4.1	8
29	An I/O-Conscious Tiling Strategy for Disk-Resident Data Sets. Journal of Supercomputing, 2002, 21, 257-284.	3.6	8
30	Gaslight: A comprehensive fuzzing architecture for memory forensics frameworks. Digital Investigation, 2017, 22, S86-S93.	3.2	6
31	Reducing false sharing and improving spatial locality in a unified compilation framework. IEEE Transactions on Parallel and Distributed Systems, 2003, 14, 337-354.	5.6	4
32	Iteration Space Tiling for Distributed Memory Machines. Advances in Parallel Computing, 1992, 3, 255-270.	0.3	4
33	An innovative application execution toolkit for multicluster grids. , 2009, , .		2
34	DA-TC: a novel application execution model in multicluster systems. Cluster Computing, 2014, 17, 371-387.	5.0	1
35	CODE SIZE REDUCTION FOR ARRAY INTENSIVE APPLICATIONS ON DIGITAL SIGNAL PROCESSORS. Journal of Circuits, Systems and Computers, 2012, 21, 1250015.	1.5	O
36	Coarse and Fine Visual Attention Strategies during a 3D Mental Rotation Task. Journal of Vision, 2018, 18, 1203.	0.3	0