Data broadcasting in SIMD computers

IEEE Transactions on Computers C-30, 101-107 DOI: 10.1109/tc.1981.6312172

Citation Report

#	Article	IF	CITATIONS
1	Efficient mapping of algorithms to single-stage interconnections. , 1980, , .		9
2	Binary trees and parallel scheduling algorithms. , 1981, , 480-492.		3
3	Vector Computer Architecture and Processing Techniques. Advances in Computers, 1981, 20, 115-197.	1.6	23
4	Graph problems on a mesh-connected processor array (Preliminary Version). , 1982, , .		11
5	Parallel permutation and sorting algorithms and a new generalized connection network. Journal of the ACM, 1982, 29, 642-667.	2.2	184
6	Topological matching. , 1983, , .		25
7	Parallel Scheduling Algorithms. Operations Research, 1983, 31, 24-49.	1.9	54
8	Graph Problems on a Mesh-Connected Processor Array. Journal of the ACM, 1984, 31, 649-667.	2.2	73
9	Shuffling with the Illiac and PM2I SIMD Networks. IEEE Transactions on Computers, 1984, C-33, 619-625.	3.4	5
10	Dynamic Programming Parallel Procedures for SIMD Architectures. North-Holland Mathematics Studies, 1985, 109, 47-63.	0.2	0
11	Solving tree problems on a mesh-connected processor array. , 1985, , .		22
12	Solving tree problems on a mesh-connected processor array. Information and Control, 1986, 69, 168-187.	1.1	39
13	Permutations on Illiac IV-Type Networks. IEEE Transactions on Computers, 1986, C-35, 662-669.	3.4	31
14	The distance bound for sorting on mesh-connected processor arrays is tight. , 1986, , .		34
15	Optimized mesh-connected networks for SIMD and MIMD architectures. , 1987, , .		14
16	Parallel Computer Models and Combinatorial Algorithms. North-Holland Mathematics Studies, 1987, , 325-364.	0.2	8
17	Adaptive and Optimal Parallel Algorithms for Enumerating Permutations and Combinations. Computer Journal, 1987, 30, 433-436.	2.4	32
18	Large-scale parallel processing systems. Microprocessors and Microsystems, 1987, 11, 3-20.	2.8	4

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		TION REPORT	
#	Article	IF	CITATIONS
19	Some practical simulations of impractical parallel computers. Parallel Computing, 1987, 4, 93-101.	2.1	12
20	Optimal algorithms for rectangle problems on a mesh-connected computer. Journal of Parallel and Distributed Computing, 1988, 5, 154-171.	4.1	12
21	Geometric problems on two-dimensional array processors. Circuits, Systems, and Signal Processing, 1988, 7, 191-211.	2.0	2
22	Optimal geometric algorithms on fixed-size linear arrays and scan line arrays. , 0, , .		7
23	Image computations on reconfigurable VLSI arrays. , 0, , .		39
24	Computing image texture features in parallel computers. Proceedings of the IEEE, 1988, 76, 292-294.	21.3	1
25	Parallel Algorithmic Techniques For Combinational Computation. Annual Review of Computer Science, 1988, 3, 233-283.	0.4	72
26	Hypercube computing; Connected components. , 0, , .		4
27	Cubesort: An optimal sorting algorithm for feasible parallel computers. , 1988, , 456-464.		7
28	Algorithms for massively parallel image processing architectures. , 0, , .		2
29	Network complexity of sorting and graph problems and simulating CRCW PRAMS by interconnection networks. Lecture Notes in Computer Science, 1988, , 339-350.	1.3	14
30	Parallel algorithmic techniques for combinatorial computation. Lecture Notes in Computer Science, 1989, , 304-318.	1.3	2
31	Parallel branch and bound on fine-grained hypercube multiprocessors. , 0, , .		1
32	Parallel algorithms for geometric searching problems. , 1989, , .		1
33	Two nearly optimal sorting algorithms for mesh-connected processor arrays using shear-sort. Journal of Parallel and Distributed Computing, 1989, 6, 151-165.	4.1	8
34	Parallel general prefix computations with geometric, algebraic, and other applications. International Journal of Parallel Programming, 1989, 18, 485-503.	1.5	15
35	Parallel batched planar point location on the CCC. Information Processing Letters, 1989, 33, 175-179.	0.6	6
36	Optimal image computations on reduced VLSI architectures. IEEE Transactions on Circuits and Systems, 1989, 36, 1365-1375.	0.9	14

#	Article	IF	CITATIONS
37	Parallel processing of linear quadtrees on a mesh-connected computer. Journal of Parallel and Distributed Computing, 1989, 7, 1-27.	4.1	19
38	An efficient VLSI architecture with applications to geometric problems. Parallel Computing, 1989, 12, 71-93.	2.1	4
39	Hypercube and shuffle-exchange algorithms for image component labeling. Journal of Algorithms, 1989, 10, 140-150.	0.9	42
40	Hypercube computing: Connected components. Journal of Supercomputing, 1989, 3, 209-234.	3.6	13
41	Image computations on meshes with multiple broadcast. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1989, 11, 1194-1202.	13.9	56
42	Overview and extensions of a system for routing directed graphs on SIMD architectures. , 0, , .		6
43	Applied geometric algorithms on Boolean N-cube computers. , 0, , .		0
44	A Hybrid SIMD/MIMD Architecture For Image Understanding. Proceedings of SPIE, 1989, , .	0.8	Ο
45	A complexity theory of efficient parallel algorithms. Theoretical Computer Science, 1990, 71, 95-132.	0.9	168
46	Optimal visibility algorithms for binary images on the hypercube. International Journal of Parallel Programming, 1990, 19, 213-224.	1.5	2
47	Parallel geometric algorithms on a mesh-connected computer. Algorithmica, 1990, 5, 155-177.	1.3	39
48	An optimal time bound for oblivious routing. Algorithmica, 1990, 5, 243-250.	1.3	5
49	Computing Hough transforms on hypercube multicomputers. Journal of Supercomputing, 1990, 4, 169-190.	3.6	19
50	Parallel branch and bound on fine-grained hypercube multiprocessors. Parallel Computing, 1990, 15, 201-209.	2.1	5
51	A note on the load balancing problem for coarse grained hypercube dictionary machines. Parallel Computing, 1990, 16, 75-79.	2.1	6
52	Processing border codes on a mesh-connected computer. Journal of Parallel and Distributed Computing, 1990, 10, 18-28.	4.1	3
53	String editing on an SIMD hypercube multicomputer. Journal of Parallel and Distributed Computing, 1990, 9, 411-418.	4.1	17
54	Implementing data structures on a hypercube multiprocessor, and applications in parallel computational geometry. Journal of Parallel and Distributed Computing, 1990, 8, 367-375.	4.1	24

# Arrect F F 63 Parallel algorithms for SIMD computers. Microprocessing and Microprogramming, 1990, 28, 83-90. 0.2 0.2 0.2 64 General Purpose Parallel Architectures, 1990, 943-971. 1.31 67 Deterministic sorting in nearly logarithmic time on the hypercube and related computers, 1990, 1.31 68 Clustering on a hyperrube multicomputer, 0, 2 1.31 69 Simularing parallel neighbouring communications among square meshes and square toruses, 0, 1.31 61 Computing bioconnected components on a hypercube, 0, 2 3.32 62 Ordinating parallel neighbouring communications on Parallel and Distributed Systems, 1990, 1 3.60 9.01 63 Agorithmic mapping of neural network models onto parallel SMD machines, 0, 3.60 9.01 64 Arroy processors with pipelined optical busies, 0, 3.61 9.01 9.01 64 Massively parallel moviedge-base server using a hypercube multiprocessor, 0, 3.61 9.01 64 Massively parallel moviedge-base server using a hypercube multiprocessor, 0, 3.61 9.01 64 Massively parallel moviedge-base server using a hypercube multiprocessor, 0,				
56 General Purpose Parallel Architectures., 1990,, 943-971. 131 57 Deterministic sorting in nearly logarithmic time on the hypercube and related computers., 1990,, 104 58 Clustering on a hypercube multicomputer., 0, 2 59 Simulating parallel neighbouring communications among square meshes and square toruses., 0, 1 60 Computing biconnected components on a hypercube., 0, 2 61 Parallel algorithms for determining kwidth- connectivity in binary images., 0, 1 62 Odd even shifts in SIMD hypercubes. IEEE Transactions on Parallel and Distributed Systems, 1990, 1. 6.0 63 Algorithmic mapping of neural network models onto parallel SIMD machines., 0, 43 64 Array processors with pipelined optical busses., 0, 43 65 A massively parallel knowledge-base server using a hypercube multiprocessor., 0, 5.6 68 67 Massive parallelism for sparse images., 0, 10 60 60 68 Mapping the generalized Hough transform on a mesh connected computer, 0, 10 60 69 Data communication and computational geometry on the star and pancake interconnection networks. 36 60 Algorithmic mapping of neural network	#	Article	IF	CITATIONS
67 Deterministic sorting in nearly logarithmic time on the hypercube and related computers., 1990, 104 68 Clustering on a hypercube multicomputer., 0, 2 69 Simulating parallel neighbouring communications among square meshes and square toruses., 0, 1 60 Computing biconnected components on a hypercube., 0, 2 61 Parallel algorithms for determining k-width- connectivity in binary images., 0, 1 62 Odd even shifts in SIMD hypercubes. IEEE Transactions on Parallel and Distributed Systems, 1990, 1. 6.6 9 63 Algorithmic mapping of neural network models onto parallel SIMD machines., 0, 6 3 64 Array processors with pipelined optical busses., 0, 8 3 65 A massively parallel knowledge-base server using a hypercube multiprocessor., 0, 3 3 66 Designing efficient parallel algorithms on mech connected computers, with multiple broadcasting. 6.6 3 67 Massivel parallel and Distributed Systems, 1990, 1, 241-246. 0 3 68 Mapping the generalized Hough transform on a mesh connected computer., 0, 1 3 69 Data communication and computational geometry on the star and pancake interconnection networks	55	Parallel algorithms for SIMD computers. Microprocessing and Microprogramming, 1990, 28, 85-90.	0.2	0
58 Clustering on a hypercube multicomputer., 0,,. 2 59 Simulating parallel neighbouring communications among square meshes and square toruses., 0, 1 60 Computing bleonnected components on a hypercube., 0, 2 61 Parallel algorithms for determining k-width- connectivity in binary images., 0, 1 62 Odd even shifts in SIMD hypercubes. IEEE Transactions on Parallel and Distributed Systems, 1990, 1, 5.6 9 63 Algorithmic mapping of neural network models onto parallel SIMD machines., 0, 6 6 64 Array processors with pipelined optical busses., 0, 43 65 A massively parallel knowledge base server using a hypercube multiprocessor., 0, 3 66 Designing efficient parallel algorithms on mech connected computers with multiple broadcasting. 3.6 98 67 Massive parallelism for sparse images., 0, 1 1 68 Mapping the generalized Hough transform on a mesh connected computer., 0, 1 1 69 Diste communication and computational geometry on the star and pancake interconnection networks. 36 70 Hypercube Algorithms for Operations on Quadtrees., 0, 1 71 Algorithmic mapping of neural netw	56	General Purpose Parallel Architectures. , 1990, , 943-971.		131
59 Simulating parallel neighbouring communications among square meshes and square toruses., 0,,. 1 60 Computing bloonnected components on a hypercube., 0,,. 2 61 Parallel algorithms for determining k-width- connectivity in binary images., 0,,. 1 62 Odd even shifts in SIMD hypercubes. IEEE Transactions on Parallel and Distributed Systems, 1990, 1, 5.6 9 63 Algorithmic mapping of neural network models onto parallel SIMD machines., 0, 6 64 Array processors with pipelined optical busses., 0, 43 65 A massively parallel knowledge-base server using a hypercube multiprocessor., 0, 3 66 Designing efficient parallel algorithms on mech-connected computers with multiple broadcasting. 5.6 68 67 Massive parallelism for sparse images., 0, 0 0 68 Mapping the generalized Hough transform on a mesh connected computer., 0, 1 69 Data communication and computational geometry on the star and pancake interconnection networks. 36 70 Hypercube Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4	57	Deterministic sorting in nearly logarithmic time on the hypercube and related computers. , 1990, , .		104
60 Computing biconnected components on a hypercube., 0, 2 61 Parallel algorthms for determining k-width- connectivity in binary images., 0, 1 62 Odd even shifts in SIMD hypercubes. IEEE Transactions on Parallel and Distributed Systems, 1990, 1, 5.6 9 63 Algorithmic mapping of neural network models onto parallel SIMD machines., 0, 6 6 64 Array processors with pipelined optical busses., 0, 43 65 A massively parallel knowledge-base server using a hypercube multiprocessor., 0, 3 66 Designing efficient parallel algorithms on mech-connected computers with multiple broadcasting. 5.6 58 67 Massive parallelism for sparse images., 0, 0 6 68 Mapping the generalized Hough transform on a mesh connected computer., 0, 1 69 Data communication and computational geometry on the star and pancake interconnection networks. 36 70 Hypercube Algorithms for Operations on Quadtrees., 0, 1 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4	58	Clustering on a hypercube multicomputer. , 0, , .		2
61 Parallel algorithms for determining k-width- connectivity in binary images., 0, , . 1 62 Odd even shifts in SIMD hypercubes. IEEE Transactions on Parallel and Distributed Systems, 1990, 1, 5.6 9 63 Algorithmic mapping of neural network models onto parallel SIMD machines., 0, , . 6 64 Array processors with pipelined optical busses., 0, . 43 65 A massively parallel knowledge-base server using a hypercube multiprocessor., 0, . 3 66 Designing efficient parallel algorithms on mech-connected computers with multiple broadcasting. 5.6 58 67 Massive parallelism for sparse images., 0, . 0 54 54 54 69 Data communication and computational geometry on the star and pancake interconnection networks. 56 58 69 Nypercube Algorithms for Operations on Quadtrees., 0, . 1 1 61 Hypercube Algorithms for Operations on Quadtrees., 0, . 1 1 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4 52	59	Simulating parallel neighbouring communications among square meshes and square toruses. , 0, , .		1
02 Odd even shifts in SIMD hypercubes. IEEE Transactions on Parallel and Distributed Systems, 1990, 1, 5.6 9 63 Algorithmic mapping of neural network models onto parallel SIMD machines., 0,,. 6 64 Array processors with pipelined optical busses., 0, 43 65 A massively parallel knowledge-base server using a hypercube multiprocessor., 0, 3 66 Designing efficient parallel algorithms on mech-connected computers with multiple broadcasting. 5.6 58 67 Massive parallelism for sparse images., 0, 0 6 68 Mapping the generalized Hough transform on a mesh connected computer., 0, 1 69 Data communication and computational geometry on the star and pancake interconnection networks. 36 70 Hypercube Algorithms for Operations on Quadtrees., 0, 1 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4 52	60	Computing biconnected components on a hypercube. , 0, , .		2
02 77-82. 5.6 5 63 Algorithmic mapping of neural network models onto parallel SIMD machines. , 0, , . 6 64 Array processors with pipelined optical busses. , 0, , . 43 65 A massively parallel knowledge-base server using a hypercube multiprocessor. , 0, , . 3 66 Designing efficient parallel algorithms on mech-connected computers with multiple broadcasting. 5.6 58 67 Massive parallelism for sparse images. , 0, . 0 0 68 Mapping the generalized Hough transform on a mesh connected computer. , 0, . 1 69 Data communication and computational geometry on the star and pancake interconnection networks. , 1991, 36 70 Hypercube Algorithms for Operations on Quadtrees. , 0, 1 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4 52	61	Parallel algorithms for determining k-width- connectivity in binary images. , 0, , .		1
64 Array processors with pipelined optical busses., 0, , . 43 65 A massively parallel knowledge-base server using a hypercube multiprocessor., 0, , . 3 66 Designing efficient parallel algorithms on mech-connected computers with multiple broadcasting. 5.6 58 67 Massive parallelism for sparse images., 0, , . 0 0 68 Mapping the generalized Hough transform on a mesh connected computer., 0, . 1 69 Data communication and computational geometry on the star and pancake interconnection networks. , 1991, 36 70 Hypercube Algorithms for Operations on Quadtrees., 0, . 1 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4 52	62	Odd even shifts in SIMD hypercubes. IEEE Transactions on Parallel and Distributed Systems, 1990, 1, 77-82.	5.6	9
65 A massively parallel knowledge-base server using a hypercube multiprocessor., 0, , . 3 66 Designing efficient parallel algorithms on mech-connected computers with multiple broadcasting. IEEE Transactions on Parallel and Distributed Systems, 1990, 1, 241-246. 5.6 58 67 Massive parallelism for sparse images., 0, . 0 68 Mapping the generalized Hough transform on a mesh connected computer., 0, . 1 69 Data communication and computational geometry on the star and pancake interconnection networks. , 1991, . 36 70 Hypercube Algorithms for Operations on Quadtrees., 0, 1 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on Computers, 1991, 40, 1390-1401. 34	63	Algorithmic mapping of neural network models onto parallel SIMD machines. , 0, , .		6
66 Designing efficient parallel algorithms on mech-connected computers with multiple broadcasting. 5.6 58 67 Massive parallelism for sparse images., 0, 0 68 Mapping the generalized Hough transform on a mesh connected computer., 0, 1 69 Data communication and computational geometry on the star and pancake interconnection networks. 36 70 Hypercube Algorithms for Operations on Quadtrees., 0, 1 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4 52	64	Array processors with pipelined optical busses. , 0, , .		43
60 IEEE Transactions on Parallel and Distributed Systems, 1990, 1, 241-246. 5.6 5.8 58 67 Massive parallelism for sparse images. , 0, , . 0 68 Mapping the generalized Hough transform on a mesh connected computer. , 0, , . 1 69 Data communication and computational geometry on the star and pancake interconnection networks. , 1991, 36 70 Hypercube Algorithms for Operations on Quadtrees. , 0, , . 1 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on Computers, 1991, 40, 1390-1401. 3.4 52	65	A massively parallel knowledge-base server using a hypercube multiprocessor. , 0, , .		3
68 Mapping the generalized Hough transform on a mesh connected computer., 0,, 1 69 Data communication and computational geometry on the star and pancake interconnection networks. 36 70 Hypercube Algorithms for Operations on Quadtrees., 0,,. 1 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4 52	66	Designing efficient parallel algorithms on mech-connected computers with multiple broadcasting. IEEE Transactions on Parallel and Distributed Systems, 1990, 1, 241-246.	5.6	58
69Data communication and computational geometry on the star and pancake interconnection networks. , 1991,,.3670Hypercube Algorithms for Operations on Quadtrees., 0, ,.171Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on Computers, 1991, 40, 1390-1401.3.452	67	Massive parallelism for sparse images. , 0, , .		0
89 ,1991,,. 38 70 Hypercube Algorithms for Operations on Quadtrees. , 0, , . 1 71 Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on S.4 52	68	Mapping the generalized Hough transform on a mesh connected computer. , 0, , .		1
Algorithmic mapping of neural network models onto parallel SIMD machines. IEEE Transactions on 3.4 52 Computers, 1991, 40, 1390-1401.	69			36
⁷¹ Computers, 1991, 40, 1390-1401. 3.4 52	70	Hypercube Algorithms for Operations on Quadtrees. , 0, , .		1
72 Optimal parallel recognition of bracket languages on hypercubes. , 1991, , 434-443. 4	71		3.4	52
	72	Optimal parallel recognition of bracket languages on hypercubes. , 1991, , 434-443.		4

#	Article	IF	CITATIONS
73	Fast data manipulation in multiprocessors using parallel pipelined memories. Journal of Parallel and Distributed Computing, 1991, 12, 130-145.	4.1	1
74	Parallel algorithms for determining k-width connectivity in binary images. Journal of Parallel and Distributed Computing, 1991, 12, 12-23.	4.1	9
75	Pipelined communications in optically interconnected arrays. Journal of Parallel and Distributed Computing, 1991, 12, 269-282.	4.1	112
76	Orthogonal multiprocessor sharing memory with an enhanced mesh for integrated image understanding. CVGIP Image Understanding, 1991, 53, 31-45.	1.3	12
77	On the recognition of digital planes in three-dimensional space. Pattern Recognition Letters, 1991, 12, 665-669.	4.2	30
78	Solving visibility problems on MCCs of smaller size. Information Sciences, 1991, 56, 163-192.	6.9	0
79	Optical clustering on a mesh-connected computer. International Journal of Parallel Programming, 1991, 20, 475-486.	1.5	0
80	Processor-time optimal parallel algorithms for digitized images on mesh-connected processor arrays. Algorithmica, 1991, 6, 698-733.	1.3	7
81	Optimal geometric algorithms for digitized images on fixed-size linear arrays and scan-line arrays. Distributed Computing, 1991, 5, 55-65.	0.8	5
82	Parallel voronoi diagram in L1 (Lâ^ž) metric on a mesh-connected computer. Parallel Computing, 1991, 17, 241-252.	2.1	5
83	Simulating parallel neighboring communications among square meshes and square toruses. Journal of Supercomputing, 1991, 5, 57.	3.6	5
84	Computing biconnected components on a hypercube. Journal of Supercomputing, 1991, 5, 73.	3.6	4
85	Mesh and pyramid algorithms for iconic indexing. , 1991, , .		0
86	Improved algorithms for load balancing in circuit-switched hypercubes. , 0, , .		4
87	Parallel algorithms for gray-scale image component labeling on a mesh-connected computer. , 1992, , .		5
88	Optimal routing of parentheses on the hypercube. , 1992, , .		10
89	Architecture independent analysis of sorting and list ranking on the hierarchical PRAM model. , 0, , .		2
90	Mapping tree-structured computations onto mesh-connected arrays of processors. , 0, , .		4

#	Article	IF	CITATIONS
91	An optimal parallel algorithm for finding the smallest enclosing rectangle on a mesh-connected computer (for rectangle read triangle). , 0, , .		0
92	Serial and parallel algorithms for the medial axis transform. , 0, , .		1
93	Quadtree building algorithms on an SIMD hypercube. , 0, , .		4
94	Hierarchical shuffle-exchange and de Bruijn networks. , 0, , .		7
95	K-selection in hypercubes. , 0, , .		0
96	Parallel orientation of polygonal parts. IEEE Transactions on Automation Science and Engineering, 1992, 8, 678-687.	2.3	3
97	Parallel algorithms for geometric connected component labeling on a hypercube multiprocessor. IEEE Transactions on Computers, 1992, 41, 699-709.	3.4	12
98	Parallel techniques for computational geometry. Proceedings of the IEEE, 1992, 80, 1435-1448.	21.3	12
99	Load balancing and routing on the hypercube and related networks. Journal of Parallel and Distributed Computing, 1992, 14, 431-435.	4.1	23
100	Parallel fractional cascading on hypercube multiprocessors. Computational Geometry: Theory and Applications, 1992, 2, 141-167.	0.5	12
101	Hypercube algorithms for operations on quadtrees. Pattern Recognition, 1992, 25, 741-747.	8.1	9
102	Cubesort: A parallel algorithm for sorting N data items with S-sorters. Journal of Algorithms, 1992, 13, 211-234.	0.9	22
103	Parallel enclosing rectangle on SIMD machines. Parallel Computing, 1992, 18, 221-229.	2.1	0
104	2-D SIMD algorithms for perfect shuffle networks. Journal of Parallel and Distributed Computing, 1992, 16, 250-257.	4.1	4
105	Efficient median finding and its application to two-variable linear programming on mesh-connected computers with multiple broadcasting. Journal of Parallel and Distributed Computing, 1992, 15, 79-84.	4.1	26
106	Mesh and pyramid algorithms for iconic indexing. Pattern Recognition, 1992, 25, 1061-1067.	8.1	3
107	Data reduction and fast routing: A strategy for efficient algorithms for message-passing parallel computers. Algorithmica, 1992, 7, 77-89.	1.3	5
108	Optimal routing algorithms for mesh-connected processor arrays. Algorithmica, 1992, 8, 21-38.	1.3	62

ARTICLE IF CITATIONS # Massively parallel model matching: geometric hashing on the Connection Machine. Computer, 1992, 25, 109 1.1 28 33-42. Quadtree Building Algorithms on an SIMD Hypercube. Journal of Parallel and Distributed Computing, 4.1 1993, 18, 71-76. Fundamental algorithms for the star and pancake interconnection networks with applications to 111 2.7 52 computational geometry. Networks, 1993, 23, 215-225. Efficient VLSI implementation of iterative solutions to sparse linear systems. Parallel Computing, 1993, 19, 525-544. Parallel vision algorithms using sparse array representations. Pattern Recognition, 1993, 26, 1511-1519. 113 8.1 3 Selection on rectangular meshes with multiple broadcasting. BIT Numerical Mathematics, 1993, 33, 7-14. Deterministic sorting in nearly logarithmic time on the hypercube and related computers. Journal of 115 1.2 24 Computer and System Sciences, 1993, 47, 501-548. Job simulation techniques on incomplete and Gray code incomplete hypercubes., 0,,. 116 117 A parallel MSF algorithm for planar graphs on a mesh and applications to image processing., 0, , . 0 118 Optimal mesh computer algorithms for simple polygons., 0,, . An optimal implementation of broadcasting with selective reduction. IEEE Transactions on Parallel 119 5.6 26 and Distributed Systems, 1993, 4, 256-269. AN OPTIMAL PARALLEL ALGORITHM FOR FINDING THE SMALLEST ENCLOSING TRIANGLE ON A MESH-CONNECTED COMPUTERa^-. International Journal of Parallel, Emergent and Distributed Systems, 0.4 1993, 1, 115-126. Optimal expression evaluation and term matching on the Boolean hypercube and on hypercubic 121 0 networks., 1994,,. SIMD algorithms for matrix multiplication on the hypercube., 0,,. Multisearch Techniques: Parallel Data Structures on Mesh-Connected Computers. Journal of Parallel 123 4.1 10 and Distributed Computing, 1994, 20, 1-13. Parallel Algorithms for Gray-Scale Digitized Picture Component Labeling on a Mesh-Connected 124 Computer. Journal of Parallel and Distributed Computing, 1994, 20, 56-68. Partial Multinode Broadcast and Partial Exchange Algorithms for d-Dimensional Meshes. Journal of 125 4.1 13 Parallel and Distributed Computing, 1994, 23, 177-189. Construction of d-Dimensional Hyperoctrees on a Hypercube Multiprocessor. Journal of Parallel and 4.1 Distributed Computing, 1994, 23, 256-261.

#	Article	IF	CITATIONS
127	A massively parallel knowledge-base server using a hypercube multiprocessor. Parallel Computing, 1994, 20, 1369-1382.	2.1	0
128	Methods and problems of communication in usual networks. Discrete Applied Mathematics, 1994, 53, 79-133.	0.9	321
129	Efficient CRCW PRAM Emulation on Practical Networks. , 1994, , .		0
130	Transformations between boundary codes, run length codes, and linear quadtrees. , 0, , .		1
131	Concurrent processing of linearly ordered data structures on hypercube multicomputers. IEEE Transactions on Parallel and Distributed Systems, 1994, 5, 898-911.	5.6	3
132	Semigroup computation and its applications on mesh-connected computers with hyperbus broadcasting. , 0, , .		0
133	Load Sharing with Parallel Priority Queues. Journal of Computer and System Sciences, 1995, 50, 64-73.	1.2	3
134	Pyramidal thinning algorithm for SIMD parallel machines. Pattern Recognition, 1995, 28, 1993-2000.	8.1	3
135	Parallel interval order recognition and construction of interval representations. Theoretical Computer Science, 1995, 143, 73-91.	0.9	1
136	PVM implementation of quadtree building algorithms on SIMD hypercube system. , 0, , .		0
137	Optimal hypercube algorithms for robot configuration space computation. , 1995, , .		3
138	Efficient nonblocking switching networks for interprocessor communications in multiprocessor systems. IEEE Transactions on Parallel and Distributed Systems, 1995, 6, 132-141.	5.6	4
139	Introduction to the Theory of Complexity Journal of the Operational Research Society, 1995, 46, 1507.	3.4	47
140	Associative broadcast communication in massively parallel SIMD machines: a practical approach. , 0, , .		0
141	Prefix computations on a generalized mesh-connected computer with multiple buses. IEEE Transactions on Parallel and Distributed Systems, 1995, 6, 196-199.	5.6	27
142	Data-parallel primitives for spatial operations using PM quadtrees. , 0, , .		2
143	Computing the configuration space for a convex robot on hypercube multiprocessors. , 0, , .		2
144	Highly irregular data accesses with hot spots on a coarse-grained parallel machine. , 0, , .		0

# 145	ARTICLE Some image processing algorithms on a RAP with wider bus networks. , 0, , .	IF	CITATIONS
146	Embedding arbitrary trees in the hypercube and the q-dimensional mesh. , 0, , .		2
147	Divide-and-conquer algorithms on the hypercube. Theoretical Computer Science, 1996, 162, 283-296.	0.9	2
148	Optimal computing hough transform on a reconfigurable array of processors with wider bus networks. Pattern Recognition, 1996, 29, 603-613.	8.1	9
149	Massively parallel computations on many-variable polynomials. Annals of Mathematics and Artificial Intelligence, 1996, 16, 251-283.	1.3	5
150	Matrix Transpose for Block Allocations on Torus and de Bruijn Networks. Journal of Parallel and Distributed Computing, 1996, 34, 36-49.	4.1	6
151	Randomized Selection on the Hypercube. Journal of Parallel and Distributed Computing, 1996, 37, 187-193.	4.1	5
152	On the multisearching problem for hypercubes. Computational Geometry: Theory and Applications, 1996, 5, 293-302.	0.5	1
153	Parallel computation of exact Euclidean distance transform. Parallel Computing, 1996, 22, 311-325.	2.1	19
154	A decentralised scheme for multi-node broadcasting on hypercubes. , 0, , .		0
155	Optimal Tree Contraction and Term Matching on the Hypercube and Related Networks. Algorithmica, 1997, 18, 445-460.	1.3	6
156	Parallel Computation of the Euclidean Distance Transform on the Mesh of Trees and the Hypercube Computer. Computer Vision and Image Understanding, 1997, 68, 109-119.	4.7	27
157	Parallel N-free order recognition. Theoretical Computer Science, 1997, 175, 393-406.	0.9	2
158	Image processing on a reconfigurable array of processors with wider bus networks. Pattern Recognition, 1997, 30, 1521-1532.	8.1	1
159	RCC-Full: An Effective Network for Parallel Computations. Journal of Parallel and Distributed Computing, 1997, 41, 139-155.	4.1	9
160	Random Data Accesses on a Coarse-Grained Parallel Machine II. One-to-Many and Many-to-One Mappings. Journal of Parallel and Distributed Computing, 1997, 44, 24-34.	4.1	12
161	Random Data Accesses on a Coarse-Grained Parallel Machine I. One-to-One Mappings. Journal of Parallel and Distributed Computing, 1997, 44, 14-23.	4.1	4
162	Skew-insensitive parallel algorithms for relational join. , 0, , .		2

#	Article	IF	CITATIONS
163	Time- and VLSI-optimal sorting on enhanced meshes. IEEE Transactions on Parallel and Distributed Systems, 1998, 9, 929-937.	5.6	3
164	Basic operations on the OTIS-Mesh optoelectronic computer. , 0, , .		6
165	OPTIMAL MESH ALGORITHMS FOR PROXIMITY AND VISIBILITY PROBLEMS IN SIMPLE POLYGONS*. International Journal of Parallel, Emergent and Distributed Systems, 1998, 13, 167-185.	0.4	1
166	Parallel polygon scan conversion on hypercube multiprocessors. , 1999, , .		1
167	Optimal Deterministic Sorting and Routing on Grids and Tori with Diagonals. Algorithmica, 1999, 25, 438-458.	1.3	1
168	A SimpleO(logN) Time Parallel Algorithm for Testing Isomorphism of Maximal Outerplanar Graphs. Journal of Parallel and Distributed Computing, 1999, 56, 144-155.	4.1	10
169	Entropy thresholding and its parallel algorithm on the reconfigurable array of processors with wider bus networks. IEEE Transactions on Image Processing, 1999, 8, 1229-1242.	9.8	25
170	Deterministic Parallel Computational Geometry. , 2000, , 155-200.		2
171	Skew-insensitive Parallel Algorithms for Relational Join. Journal of King Saud University - Computer and Information Sciences, 2001, 13, 79-110.	3.9	0
172	Embedding Graphs with Bounded Treewidth into Their Optimal Hypercubes. Journal of Algorithms, 2002, 43, 17-50.	0.9	5
173	Data-parallel polygonization. Parallel Computing, 2003, 29, 1381-1401.	2.1	13
174	Efficient Embeddings into Hypercube-like Topologies. Computer Journal, 2003, 46, 632-644.	2.4	5
175	An optimal and scalable parallelization of the two-list algorithm for the subset-sum problem. European Journal of Operational Research, 2007, 176, 870-879.	5.7	21
176	Parallel Source Scanning Algorithm using GPUs. Computers and Geosciences, 2020, 140, 104497.	4.2	3
177	A Deep Learning Compiler for Vector Processor. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 670-687.	0.3	0
180	VLSI arrays with reconfigurable buses. Lecture Notes in Computer Science, 1988, , 732-743.	1.3	11
181	Randomized parallel selection. Lecture Notes in Computer Science, 1990, , 215-224.	1.3	24
182	Finite field arithmetic using the connection machine. Lecture Notes in Computer Science, 1992, , 51-61.	1.3	4

#	Article	IF	CITATIONS
183	Parallel Search in Sorted Multisets, and NP-Complete Problems. , 1992, , 383-393.		2
185	Parallel Congruent Regions on a Mesh-Connected Computer. Lecture Notes in Computer Science, 2000, , 194-203.	1.3	0
186	Introduction to the Complexity of Parallel Algorithms. Applied Optimization, 2002, , 3-25.	0.4	0
187	Computing on a systolic screen: Hulls, contours and applications. Lecture Notes in Computer Science, 1987, , 121-133.	1.3	3
188	Parallel general prefix computations with geometric, algebraic and other applications. Lecture Notes in Computer Science, 1989, , 424-433.	1.3	2
189	Implementing data structures on a hypercube multiprocessor, and applications in parallel computational geometry. Lecture Notes in Computer Science, 1990, , 316-329.	1.3	0
190	A note on the load balancing problem for coarse grained hypercube dictionary machines. Lecture Notes in Computer Science, 1990, , 417-422.	1.3	1
191	Matrix Inversion in 3 Dimensions. , 1991, , 295-302.		0
192	Optimal implementation of general divide- and-conquer on the hypercube and related networks. Lecture Notes in Computer Science, 1993, , 195-206.	1.3	0
193	Reconfigurable Mesh Algorithms For Fundamental Data Manipulation Operations. , 1993, , 27-46.		5
194	Divide-and-conquer algorithms on the hypercube. Lecture Notes in Computer Science, 1993, , 153-162.	1.3	1
195	Optimal tree contraction on the hypercube and related networks. Lecture Notes in Computer Science, 1993, , 295-305.	1.3	0
196	Image Processing On Reconfigurable Meshes With Buses* *This research was supported, in part, by the National Science Foundation under grant MIP-9103379 Machine Intelligence and Pattern Recognition, 1994, 14, 67-91.	0.2	0
197	On the multisearching problem for hypercubes. Lecture Notes in Computer Science, 1994, , 159-166.	1.3	4
198	Unit route upper bound for string-matching on hypercube. Lecture Notes in Computer Science, 1994, , 136-145.	1.3	0
199	Programming a Hierarchical Structure. , 1994, , 241-289.		0
200	Work-Optimal thinning algorithm on SIMD machines. Lecture Notes in Computer Science, 1994, , 137-152.	1.3	0
201	A general method for efficient embeddings of graphs into optimal hypercubes. Lecture Notes in Computer Science, 1996, , 222-233.	1.3	1

#	Article	IF	CITATIONS
203	Parallel interval order recognition and construction of interval representations. Theoretical Computer Science, 1995, 143, 73-91.	0.9	0