

Basic operations on the OTIS-Mesh optoelectronic comp

IEEE Transactions on Parallel and Distributed Systems  
9, 1226-1236

DOI: 10.1109/71.737698

Citation Report

#	ARTICLE	IF	CITATIONS
1	Models and algorithms for optical and optoelectronic parallel computers. , 0, , .		16
2	Scalable Network Architectures Using the Optical Transpose Interconnection System (OTIS). Journal of Parallel and Distributed Computing, 2000, 60, 521-538.	4.1	57
3	Topologies for optical interconnection networks based on the optical transpose interconnection system. Applied Optics, 2000, 39, 2965.	2.1	19
4	Image processing on the OTIS-mesh optoelectronic computer. IEEE Transactions on Parallel and Distributed Systems, 2000, 11, 97-109.	5.6	47
5	Sorting on the OTIS-mesh. , 0, , .		21
6	Matrix multiplication on the OTIS-Mesh optoelectronic computer. IEEE Transactions on Computers, 2001, 50, 635-646.	3.4	53
7	Computational geometry on the OTIS-Mesh optoelectronic computer. , 0, , .		4
8	Topological properties of OTIS-networks. IEEE Transactions on Parallel and Distributed Systems, 2002, 13, 359-366.	5.6	70
9	Optical transpose k-ary n-cube networks. Journal of Systems Architecture, 2004, 50, 697-705.	4.3	23
10	Neighborhood property of OTIS-mesh optoelectronic computer. , 2004, , .		0
11	Improved parallel prefix computation on optical multi-trees. , 0, , .		3
12	Comparative Evaluation of Adaptive and Deterministic Routing in the OTIS-Hypercube. Lecture Notes in Computer Science, 2004, , 349-362.	1.3	10
13	Swapped interconnection networks: Topological, performance, and robustness attributes. Journal of Parallel and Distributed Computing, 2005, 65, 1443-1452.	4.1	55
14	The Hamiltonicity of swapped (OTIS) networks built of Hamiltonian component networks. Information Processing Letters, 2005, 95, 441-445.	0.6	14
15	An Empirical Comparison of OTIS-Mesh and OTIS-Hypercube Multicomputer Systems under Deterministic Routing. , 0, , .		3
16	An oblivious shortest-path routing algorithm for fully connected cubic networks. Journal of Parallel and Distributed Computing, 2006, 66, 1294-1303.	4.1	8
17	Generalized methods for algorithm development on optical systems. Journal of Supercomputing, 2006, 38, 111-125.	3.6	9
18	OMTSE - An Optical Interconnection System for Parallel Computing. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
19	AN IMPROVED PARALLEL PREFIX ALGORITHM ON OTIS-MESH. Parallel Processing Letters, 2006, 16, 429-440.	0.6	22
20	On Pancyclicity Properties of OTIS Networks. Lecture Notes in Computer Science, 2007, , 545-553.	1.3	2
21	Mathematical performance modelling of adaptive wormhole routing in optoelectronic hypercubes. Journal of Parallel and Distributed Computing, 2007, 67, 967-980.	4.1	4
22	The load balancing problem in OTIS-Hypercube interconnection networks. Journal of Supercomputing, 2008, 46, 276-297.	3.6	23
23	Permutation algorithms on optical multi-trees. Computers and Mathematics With Applications, 2008, 56, 2656-2665.	2.7	1
24	Parallel Sorting on the Biswapped Network. , 2008, , .		2
25	Swapped (OTIS) Networks Built of Connected Basis Networks Are Maximally Fault Tolerant. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 361-366.	5.6	14
26	Parallel algorithm for sorting on OTIS-ring multicomputer. , 2009, , .		2
27	An Efficient Parallel Sorting Algorithm on OTIS Mesh of Trees. , 2009, , .		5
28	Performance evaluation of broadcast and global combine operations in all-port wormhole-routed OTIS-Mesh interconnection networks. Cluster Computing, 2010, 13, 87-110.	5.0	18
29	Fast parallel prefix on multi-mesh of trees. , 2010, , .		1
30	SORTING AND ROUTING ON OTIS-MESH OF TREES. Parallel Processing Letters, 2010, 20, 145-154.	0.6	7
31	Pancyclicity of OTIS (swapped) networks based on properties of the factor graph. Information Processing Letters, 2011, 111, 1114-1119.	0.6	3
32	On pancyclicity properties of OTIS-mesh. Information Processing Letters, 2011, 111, 353-359.	0.6	6
33	The Load Balancing Problem in Extended OTIS-n-Cube Interconnection Networks. , 2012, , .		1
34	NEARLY OPTIMAL NODE-TO-SET PARALLEL ROUTING IN OTIS NETWORKS. Journal of Interconnection Networks, 2012, 13, 1250002.	1.0	0
35	Topological properties of the Extended OTIS-n-Cube interconnection network. Journal of Supercomputing, 2012, 62, 134-149.	3.6	7
36	A Fast Parallel Prefix Algorithm on OTIS-Modified Mesh of Trees. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	The OTIS hyper hexa-cell optoelectronic architecture. <i>Computing (Vienna/New York)</i> , 2012, 94, 411-432.	4.8	28
38	The Optical Chained-Cubic Tree interconnection network: Topological structure and properties. <i>Computers and Electrical Engineering</i> , 2012, 38, 330-345.	4.8	22
39	OTIS-MOT: an efficient interconnection network for parallel processing. <i>Journal of Supercomputing</i> , 2012, 59, 920-940.	3.6	8
40	An Improved Parallel Prefix Computation on 2D-Mesh Network. <i>Procedia Technology</i> , 2013, 10, 919-926.	1.1	6
41	BSN-mesh and its basic parallel algorithms. <i>International Journal of Grid and Utility Computing</i> , 2015, 6, 213.	0.2	9
42	Parallel algorithm for short-term time series forecasting on BSN mesh. , 2017, , .		0
43	The Recursive and Symmetrical Optoelectronic Network Architecture: Biswapped Network Hyper Hexa-Cell. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 7635-7653.	3.0	7
44	Solving traveling salesman problem using parallel repetitive nearest neighbor algorithm on OTIS-Hypercube and OTIS-Mesh optoelectronic architectures. <i>Journal of Supercomputing</i> , 2018, 74, 1-36.	3.6	57
45	Calculating topological indices of certain OTIS interconnection networks. <i>Open Chemistry</i> , 2019, 17, 220-228.	1.9	23
46	Parallel heuristic local search algorithm on OTIS hyper hexa-cell and OTIS mesh of trees optoelectronic architectures. <i>Applied Intelligence</i> , 2019, 49, 661-688.	5.3	24
47	BSN MOT: A Fast and Cost-efficient Optoelectronic Architecture. <i>IETE Technical Review (Institution of Tj ETQq0 0 Q rrgBT /Overlock 10 T</i>	3.2	1
48	Polynomials of Degree-Based Indices for Swapped Networks Modeled by Optical Transpose Interconnection System. <i>IEEE Access</i> , 2020, 8, 214293-214299.	4.2	15
49	On Topological Indices for Swapped Networks Modeled by Optical Transpose Interconnection System. <i>IEEE Access</i> , 2020, 8, 200091-200099.	4.2	18
50	Parallel quicksort algorithm on OTIS hyper hexa-cell optoelectronic architecture. <i>Journal of Parallel and Distributed Computing</i> , 2020, 141, 61-73.	4.1	13
51	An efficient parallel strategy for high-cost prefix operation. <i>Journal of Supercomputing</i> , 2021, 77, 5267-5288.	3.6	4
52	On topological properties of hierarchical hypercube network based on $V_e$ and $V_v$ degree. <i>Main Group Metal Chemistry</i> , 2021, 44, 185-193.	1.6	2
53	ON $V_e$ -DEGREE AND $V_v$ -DEGREE BASED TOPOLOGICAL INDICES OF CERTAIN OTIS BISWAPPED NETWORK. <i>Advances in Mathematics: Scientific Journal (discontinued)</i> , 2021, 10, 2887-2908.	0.2	1
54	Distance-Based Polynomials and Topological Indices for Hierarchical Hypercube Networks. <i>Journal of Mathematics</i> , 2021, 2021, 1-11.	1.0	2

#	ARTICLE	IF	CITATIONS
55	Otis Optoelectronic Computers. , 1998, , 99-116.		14
56	OMULT: An Optical Interconnection System for Parallel Computing. Lecture Notes in Computer Science, 2004, , 856-863.	1.3	8
57	Algorithms of Basic Communication Operation on the Biswapped Network. Lecture Notes in Computer Science, 2008, , 347-354.	1.3	10
58	Hamiltonicity of a General OTIS Network. Lecture Notes in Computer Science, 2010, , 459-465.	1.3	2
59	Parallel Enumeration Sort on OTIS-Hypercube. Communications in Computer and Information Science, 2010, , 21-31.	0.5	3
60	Optical and Optoelectronic Interconnection Networks. Network Theory and Applications, 2001, , 63-88.	0.6	0
61	Polynomial Interpolation on OTIS-Mesh Optoelectronic Computers. Lecture Notes in Computer Science, 2004, , 373-378.	1.3	2
62	A New Fault-Tolerant Routing Algorithm for OTIS-Cube Using Unsafety Vectors. International Journal of Computers and Applications, 2005, 27, .	1.3	0
63	A New Unicast Routing Algorithm for Hyper Hexa-Cell Interconnection Networks. International Journal of Information Systems and Social Change, 2017, 8, 45-57.	0.1	0
64	Basic Operations on the 2-D Mesh Topology with Optical Interlinks. Advances in Intelligent Systems and Computing, 2018, , 571-577.	0.6	0
65	Topology-Based Analysis of OTIS (Swapped) Networks OKn and OPn. Journal of Chemistry, 2019, 2019, 1-11.	1.9	1
66	Optimized Parallel Prefix Sum Algorithm on Optoelectronic Biswapped-Torus Architecture. Vietnam Journal of Computer Science, 2021, 08, 357-374.	1.2	0
67	Petersen-star networks modeled by optical transpose interconnection system. International Journal of Distributed Sensor Networks, 2021, 17, 155014772110331.	2.2	1
68	Topological properties assessment of optoelectronic architectures. Telecommunication Systems, 2022, 80, 599-627.	2.5	2