Shuming Zhou

List of Publications by Year
in descending order

83 papers	1,226 citations	331259 21 h-index	433756 31 g-index
83 all docs	83 docs citations	83 times ranked	273 citing authors

#	Article	IF	Citations
1	Cluster Connectivity And Super Cluster Connectivity Of DQcube. Computer Journal, 2023, 66, 826-841.	1.5	1
2	An $O(\log _3N)$ Algorithm for Reliability Assessment of 3-Ary n-Cubes Based on h-Extra Edge Connectivity. IEEE Transactions on Reliability, 2022, 71, 1230-1240.	3.5	6
3	An O(log2 N) algorithm for reliability assessment of augmented cubes based on h-extra edge-connectivity. Journal of Supercomputing, 2022, 78, 6739-6751.	2.4	8
4	Component diagnosability in terms of component connectivity of hypercube-based compound networks. Journal of Parallel and Distributed Computing, 2022, 162, 17-26.	2.7	9
5	Novel Resistive Distance Descriptors on Complex Network. IEEE Access, 2022, 10, 14548-14563.	2.6	1
6	Reliability of Divide-and-Swap Cube Based on r-Component Connectivity and Diagnosability. Journal of Interconnection Networks, 2022, 22, .	0.6	1
7	Identifying key nodes in interdependent networks based on Supra-Laplacian energy. Journal of Computational Science, 2022, 61, 101657.	1.5	2
8	Vulnerability analysis of multiprocessor system based on burnt pancake networks. Discrete Applied Mathematics, 2022, 314, 304-320.	0.5	1
9	Fault-Tolerant Strong Menger (Edge) Connectivity of DCC Linear Congruential Graphs. International Journal of Foundations of Computer Science, 2022, 33, 1019-1032.	0.8	1
10	Persistence of Hybrid Diagnosability of Regular Networks Under Testing Diagnostic Model. Computer Journal, 2021, 64, 1401-1411.	1.5	2
11	Reliability measure of multiprocessor system based on enhanced hypercubes. Discrete Applied Mathematics, 2021, 289, 125-138.	0.5	14
12	Phase transition in spectral clustering based on resistance matrix. Physica A: Statistical Mechanics and Its Applications, 2021, 566, 125598.	1.2	4
13	Note on R-conditional diagnosability of hypercube. Theoretical Computer Science, 2021, 849, 197-201.	0.5	7
14	Fault diagnosability of Bicube networks under the PMC diagnostic model. Theoretical Computer Science, 2021, 851, 14-23.	0.5	16
15	Structure and substructure connectivity of alternating group graphs. Applied Mathematics and Computation, 2021, 391, 125639.	1.4	15
16	Subgraph-based Strong Menger Connectivity of Hypercube and Exchanged Hypercube. International Journal of Foundations of Computer Science, 2021, 32, 305-330.	0.8	10
17	The Hermitian Kirchhoff Index and Robustness of Mixed Graph. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	0
18	The g-component connectivity of graphs. Theoretical Computer Science, 2021, 889, 96-104.	0.5	1

#	ARTICLE	IF	CITATIONS
19	Reliability analysis of the cactus-based networks. Theoretical Computer Science, 2021, 888, 95-107.	0.5	2
20	Reliability evaluation of DQcube based on g-good neighbor and g-component fault pattern. Discrete Applied Mathematics, 2021, 305, 179-190.	0.5	12
21	Reliability Evaluation of Bicube-Based Multiprocessor System under the <i>g</i>-Good-Neighbor Restriction. Parallel Processing Letters, 2021, 31, .	0.4	3
22	A New Measure of Network Robustness: Network Cluster Entropy. Communications in Computer and Information Science, 2021, , 175-191.	0.4	1
23	Extra (component) connectivity and diagnosability of bubble sort networks. , 2021, , .		0
24	Subgraph reliability of the cactus-based networks. , 2021, , .		0
25	Component connectivity of Cayley graphs generated by transposition trees. International Journal of Parallel, Emergent and Distributed Systems, 2020, 35, 103-110.	0.7	12
26	On Reliability of Multiprocessor System Based on Star Graph. IEEE Transactions on Reliability, 2020, 69, 715-724.	3.5	12
27	Reliability evaluation of complete cubic networks. International Journal of Parallel, Emergent and Distributed Systems, 2020, 35, 42-56.	0.7	2
28	Characterization of Diagnosabilities on the Bounded PMC Model. Computer Journal, 2020, 63, 1397-1405.	1.5	4
29	Influential node detection of social networks based on network invulnerability. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126879.	0.9	10
30	Reliability analysis of subsystem in dual cubes. Theoretical Computer Science, 2020, 816, 249-259.	0.5	13
31	Reliability and conditional diagnosability of hyper bijective connection networks. International Journal of Computer Mathematics: Computer Systems Theory, 2020, 5, 25-47.	0.7	0
32	Reliability Analysis of Subsystem in Balanced Hypercubes. IEEE Access, 2020, 8, 26478-26486.	2.6	6
33	Shapley Distance and Shapley Index for Some Special Graphs. Parallel Processing Letters, 2020, 30, 2050012.	0.4	7
34	Reliability of (n,k)-star network based on g-extra conditional fault. Theoretical Computer Science, 2019, 757, 44-55.	0.5	40
35	A new metric to quantify influence of nodes in social networks. International Journal of Modern Physics B, 2019, 33, 1950186.	1.0	2
36	Probabilistic diagnosis of clustered faults for hypercube-based multiprocessor system. Theoretical Computer Science, 2019, 793, 113-131.	0.5	3

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37	Phase transitions in normalized cut of social networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 3037-3042.	0.9	3
38	Fault diagnosability of DQcube under the PMC model. Discrete Applied Mathematics, 2019, 259, 180-192.	0.5	19
39	Communities detection in social network based on local edge centrality. Physica A: Statistical Mechanics and Its Applications, 2019, 531, 121552.	1.2	24
40	Fault tolerance analysis of hierarchical folded cube. Theoretical Computer Science, 2019, 790, 117-130.	0.5	15
41	Fault diagnosability of data center networks. Theoretical Computer Science, 2019, 776, 138-147.	0.5	21
42	A Note of Independent Number and Domination Number of Qn,k,m-Graph. Parallel Processing Letters, 2019, 29, 1950011.	0.4	0
43	The relationship between extra connectivity and conditional diagnosability of regular graphs under the PMC model. Journal of Computer and System Sciences, 2018, 95, 1-18.	0.9	32
44	The -Good-Neighbor Conditional Diagnosability of Arrangement Graphs. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 542-548.	3.7	40
45	An insertion–deletion–compensation model with Poisson process for scale-free networks. Future Generation Computer Systems, 2018, 83, 425-430.	4.9	6
46	A Kind of Conditional Connectivity of Cayley Graphs Generated by 2-trees. Computer Journal, 2018, 61, 714-721.	1.5	9
47	Reliability Evaluation of Data Center Network DCell. Parallel Processing Letters, 2018, 28, 1850015.	0.4	7
48	The g-good-neighbour conditional diagnosability of multiprocessor system based on half hypercube. International Journal of Computer Mathematics: Computer Systems Theory, 2018, 3, 160-176.	0.7	5
49	The g-good-neighbor diagnosability of (n,k)-star graphs. Theoretical Computer Science, 2017, 659, 53-63.	0.5	41
50	Reliability Assessment of Multiprocessor System Based on (n,k)-Star Network. IEEE Transactions on Reliability, 2017, 66, 1025-1035.	3.5	10
51	A Straight Skeleton Based Connectivity Restoration Strategy in the Presence of Obstacles for WSNs. Sensors, 2017, 17, 2299.	2.1	5
52	Hybrid Recovery Strategy Based on Random Terrain in Wireless Sensor Networks. Scientific Programming, 2017, 2017, 1-19.	0.5	12
53	The Reliability Analysis Based on Subsystems of (n,k) -Star Graph. IEEE Transactions on Reliability, 2016, 65, 1700-1709.	3.5	31
54	The Extra Connectivity, Extra Conditional Diagnosability, and <inline-formula> <tex-math notation="LaTeX"> t/m</tex-math> </inline-formula>-Diagnosability of Arrangement Graphs. IEEE Transactions on Reliability, 2016, 65, 1248-1262.	3.5	52

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55	Relating the extra connectivity and the conditional diagnosability of regular graphs under the comparison model. Theoretical Computer Science, 2016, 618, 21-29.	0.5	31
56	The Extra, Restricted Connectivity and Conditional Diagnosability of Split-Star Networks. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 533-545.	4.0	64
57	The -Diagnosability for Regular Networks. IEEE Transactions on Computers, 2016, 65, 3157-3170.	2.4	32
58	On conditional fault tolerance and diagnosability of hierarchical cubic networks. Theoretical Computer Science, 2016, 609, 421-433.	0.5	26
59	Conditional diagnosability and strong diagnosability of shuffle-cubes under the comparison model. International Journal of Computer Mathematics, 2015, 92, 230-249.	1.0	20
60	The t/k-Diagnosability of Star Graph Networks. IEEE Transactions on Computers, 2015, 64, 547-555.	2.4	57
61	Fault tolerance and diagnosability of burnt pancake networks under the comparison model. Theoretical Computer Science, 2015, 582, 48-59.	0.5	23
62	A novel sleep scheduling scheme in green wireless sensor networks. Journal of Supercomputing, 2015, 71, 1067-1094.	2.4	9
63	Conditional diagnosability and strong diagnosability of Split-Star Networks under the PMC model. Theoretical Computer Science, 2015, 562, 565-580.	0.5	38
64	The Extra Connectivity and Conditional Diagnosability of Alternating Group Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 2352-2362.	4.0	78
65	Restoration Strategy Based on Optimal Relay Node Placement in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 409085.	1.3	6
66	Conditional diagnosability of arrangement graphs under the PMC model. Theoretical Computer Science, 2014, 548, 79-97.	0.5	33
67	Fault diagnosability of arrangement graphs. Information Sciences, 2013, 246, 177-190.	4.0	43
68	On conditional fault tolerant of dual-cubes. International Journal of Parallel, Emergent and Distributed Systems, 2013, 28, 199-213.	0.7	9
69	Conditional Diagnosability of Complete Josephus Cubes. Lecture Notes in Computer Science, 2013, , 220-231.	1.0	0
70	Conditional fault diagnosis of hierarchical hypercubes. International Journal of Computer Mathematics, 2012, 89, 2152-2164.	1.0	16
71	CONDITIONAL FAULT DIAGNOSABILITY OF DUAL-CUBES. International Journal of Foundations of Computer Science, 2012, 23, 1729-1747.	0.8	19
72	The conditional fault diagnosability of (n,k)-star graphs. Applied Mathematics and Computation, 2012, 218, 9742-9749.	1.4	43

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73	Conditional fault tolerance of arrangement graphs. Information Processing Letters, 2011, 111, 1037-1043.	0.4	27
74	Construction of vertex-disjoint paths in alternating group networks. Journal of Supercomputing, 2010, 54, 206-228.	2.4	26
75	Conditional diagnosability of alternating group networks. Information Processing Letters, 2010, 110, 403-409.	0.4	38
76	The conditional diagnosability of crossed cubes under the comparison model. International Journal of Computer Mathematics, 2010, 87, 3387-3396.	1.0	19
77	Assemblies of Software Components. , 2009, , .		0
78	The Cayley network of expanded Pancake graphs. International Journal of Computer Mathematics, 2005, 82, 1371-1378.	1.0	1
79	Conditional Diagnosability of Burnt Pancake Networks Under the PMC Model. Computer Journal, 0, , bxv066.	1.5	3
80	Reliability of Complete Cubic Networks under the Condition of g-Good-Neighbor. Computer Journal, 0, , .	1.5	3
81	Intermittent Fault Diagnosability of Some General Regular Networks. Computer Journal, 0, , .	1.5	1
82	The h-Restricted Connectivity of a Class of Hypercube-Based Compound Networks. Computer Journal, 0, , .	1.5	1
83	The Component (Edge) Connectivity of Round Matching Composition Networks. International Journal of Foundations of Computer Science, 0, , 1-14.	0.8	0