

Prasanta K Jana

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5145978/publications.pdf>

Version: 2024-02-01

116
papers

4,467
citations

117453

34
h-index

118652

62
g-index

117
all docs

117
docs citations

117
times ranked

2644
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy efficient clustering and routing algorithms for wireless sensor networks: Particle swarm optimization approach. <i>Engineering Applications of Artificial Intelligence</i> , 2014, 33, 127-140.	4.3	422
2	A particle swarm optimization based energy efficient cluster head selection algorithm for wireless sensor networks. <i>Wireless Networks</i> , 2017, 23, 2005-2020.	2.0	301
3	A novel evolutionary approach for load balanced clustering problem for wireless sensor networks. <i>Swarm and Evolutionary Computation</i> , 2013, 12, 48-56.	4.5	224
4	A novel differential evolution based clustering algorithm for wireless sensor networks. <i>Applied Soft Computing Journal</i> , 2014, 25, 414-425.	4.1	193
5	Energy-aware routing algorithm for wireless sensor networks. <i>Computers and Electrical Engineering</i> , 2015, 41, 357-367.	3.0	163
6	Efficient task scheduling algorithms for heterogeneous multi-cloud environment. <i>Journal of Supercomputing</i> , 2015, 71, 1505-1533.	2.4	158
7	Energy efficient fault tolerant clustering and routing algorithms for wireless sensor networks. <i>Computers and Electrical Engineering</i> , 2015, 41, 177-190.	3.0	134
8	Application of wireless sensor network for environmental monitoring in underground coal mines: A systematic review. <i>Journal of Network and Computer Applications</i> , 2018, 106, 48-67.	5.8	125
9	Genetic algorithm approach for k -coverage and m -connected node placement in target based wireless sensor networks. <i>Computers and Electrical Engineering</i> , 2016, 56, 544-556.	3.0	124
10	A GSA based hybrid algorithm for bi-objective workflow scheduling in cloud computing. <i>Future Generation Computer Systems</i> , 2018, 83, 14-26.	4.9	123
11	Energy efficient path selection for mobile sink and data gathering in wireless sensor networks. <i>AEU - International Journal of Electronics and Communications</i> , 2017, 73, 110-118.	1.7	108
12	Energy Efficient Load-Balanced Clustering Algorithm for Wireless Sensor Networks. <i>Procedia Technology</i> , 2012, 6, 771-777.	1.1	92
13	Energy Efficient Clustering and Routing Algorithms for Wireless Sensor Networks: GA Based Approach. <i>Wireless Personal Communications</i> , 2015, 83, 2403-2423.	1.8	89
14	An efficient scheduling scheme for mobile charger in on-demand wireless rechargeable sensor networks. <i>Journal of Network and Computer Applications</i> , 2018, 114, 123-134.	5.8	88
15	An energy-efficient task scheduling algorithm for heterogeneous cloud computing systems. <i>Cluster Computing</i> , 2019, 22, 509-527.	3.5	81
16	A multi-objective and PSO based energy efficient path design for mobile sink in wireless sensor networks. <i>Pervasive and Mobile Computing</i> , 2018, 46, 122-136.	2.1	76
17	PSO-based approach for energy-efficient and energy-balanced routing and clustering in wireless sensor networks. <i>Soft Computing</i> , 2017, 21, 6825-6839.	2.1	74
18	Approximation schemes for load balanced clustering in wireless sensor networks. <i>Journal of Supercomputing</i> , 2014, 68, 87-105.	2.4	69

#	ARTICLE	IF	CITATIONS
19	GAR: An Energy Efficient GA-Based Routing for Wireless Sensor Networks. Lecture Notes in Computer Science, 2013, , 267-277.	1.0	66
20	SLA-based task scheduling algorithms for heterogeneous multi-cloud environment. Journal of Supercomputing, 2017, 73, 2730-2762.	2.4	66
21	A distributed algorithm for energy efficient and fault tolerant routing in wireless sensor networks. Wireless Networks, 2015, 21, 251-267.	2.0	65
22	Particle swarm optimization for maximizing lifetime of wireless sensor networks. Computers and Electrical Engineering, 2016, 51, 26-42.	3.0	64
23	Normalization-Based Task Scheduling Algorithms for Heterogeneous Multi-Cloud Environment. Information Systems Frontiers, 2018, 20, 373-399.	4.1	63
24	A multi-objective task scheduling algorithm for heterogeneous multi-cloud environment. , 2015, , .		55
25	A novel cost-efficient approach for deadline-constrained workflow scheduling by dynamic provisioning of resources. Future Generation Computer Systems, 2018, 79, 95-110.	4.9	53
26	An efficient scheduling scheme for on-demand mobile charging in wireless rechargeable sensor networks. Pervasive and Mobile Computing, 2019, 59, 101074.	2.1	51
27	A grid based clustering and routing algorithm for solving hot spot problem in wireless sensor networks. Wireless Networks, 2016, 22, 1901-1916.	2.0	46
28	Task scheduling algorithms for multi-cloud systems: allocation-aware approach. Information Systems Frontiers, 2019, 21, 241-259.	4.1	45
29	A Fuzzy Logic-Based On-Demand Charging Algorithm for Wireless Rechargeable Sensor Networks With Multiple Chargers. IEEE Transactions on Mobile Computing, 2021, 20, 2715-2727.	3.9	45
30	A distributed fault-tolerant clustering algorithm for wireless sensor networks. , 2013, , .		42
31	Uncertainty-Based QoS Min-Min Algorithm for Heterogeneous Multi-cloud Environment. Arabian Journal for Science and Engineering, 2016, 41, 3003-3025.	1.1	40
32	Coverage hole detection and restoration algorithm for wireless sensor networks. Peer-to-Peer Networking and Applications, 2017, 10, 66-78.	2.6	39
33	An Energy Efficient Algorithm for Workflow Scheduling in IaaS Cloud. Journal of Grid Computing, 2020, 18, 357-376.	2.5	37
34	Genetic Algorithm for k-Connected Relay Node Placement in Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2016, , 721-729.	0.5	36
35	A hybrid MapReduce-based k-means clustering using genetic algorithm for distributed datasets. Journal of Supercomputing, 2018, 74, 1562-1579.	2.4	36
36	Allocation-aware Task Scheduling for Heterogeneous Multi-cloud Systems. Procedia Computer Science, 2015, 50, 176-184.	1.2	34

#	ARTICLE	IF	CITATIONS
37	Efficient Workflow Scheduling Algorithm for Cloud Computing System: A Dynamic Priority-Based Approach. Arabian Journal for Science and Engineering, 2018, 43, 7945-7960.	1.7	32
38	Load balanced task scheduling for cloud computing: a probabilistic approach. Knowledge and Information Systems, 2019, 61, 1607-1631.	2.1	32
39	Improved Load Balanced Clustering Algorithm for Wireless Sensor Networks. Lecture Notes in Computer Science, 2012, , 399-404.	1.0	30
40	An energy balanced distributed clustering and routing algorithm for Wireless Sensor Networks. , 2012, , .		28
41	A Survey on Mobile Charging Techniques in Wireless Rechargeable Sensor Networks. IEEE Communications Surveys and Tutorials, 2022, 24, 1750-1779.	24.8	28
42	An efficient task scheduling algorithm for heterogeneous multi-cloud environment. , 2014, , .		26
43	Polynomial interpolation and polynomial root finding on OTIS-mesh. Parallel Computing, 2006, 32, 301-312.	1.3	25
44	Energy efficient multipath routing for wireless sensor networks: A genetic algorithm approach. , 2016, , .		25
45	Heap and parameter-based load balanced clustering algorithms for wireless sensor networks. International Journal of Communication Networks and Distributed Systems, 2015, 14, 413.	0.3	23
46	AN IMPROVED PARALLEL PREFIX ALGORITHM ON OTIS-MESH. Parallel Processing Letters, 2006, 16, 429-440.	0.4	22
47	An efficient minimum spanning tree based clustering algorithm. , 2009, , .		21
48	An efficient energy saving task consolidation algorithm for cloud computing systems. , 2014, , .		20
49	A smoothing based task scheduling algorithm for heterogeneous multi-cloud environment. , 2014, , .		20
50	Energy and Coverage-Aware Routing Algorithm for Wireless Sensor Networks. Wireless Personal Communications, 2015, 81, 531-545.	1.8	20
51	Distributed fault detection and recovery algorithms in two-tier wireless sensor networks. International Journal of Communication Networks and Distributed Systems, 2016, 16, 281.	0.3	20
52	Relay Node Placement with Assured Coverage and Connectivity: A Jarvis March Approach. Wireless Personal Communications, 2018, 98, 1361-1381.	1.8	20
53	Compute-intensive workflow scheduling in multi-cloud environment. , 2016, , .		19
54	An efficient scheme for trajectory design of mobile chargers in wireless sensor networks. Wireless Networks, 2020, 26, 897-912.	2.0	19

#	ARTICLE	IF	CITATIONS
55	An efficient partial charging scheme using multiple mobile chargers in wireless rechargeable sensor networks. <i>Ad Hoc Networks</i> , 2021, 113, 102407.	3.4	18
56	An Efficient Resource Allocation Algorithm for IaaS Cloud. <i>Lecture Notes in Computer Science</i> , 2015, , 351-355.	1.0	17
57	PSO-Based Multiple-sink Placement Algorithm for Prolonging the Lifetime of Wireless Sensor Networks. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 605-616.	0.5	17
58	Granularity-based workflow scheduling algorithm for cloud computing. <i>Journal of Supercomputing</i> , 2017, 73, 5440-5464.	2.4	17
59	Energy density based mobile sink trajectory in wireless sensor networks. <i>Microsystem Technologies</i> , 2019, 25, 1771-1781.	1.2	16
60	Multi-mesh of trees with its parallel algorithms. <i>Journal of Systems Architecture</i> , 2004, 50, 193-206.	2.5	15
61	A delay-bound efficient path design algorithm for mobile sink in wireless sensor networks. , 2016, , .		15
62	An Efficient Task Consolidation Algorithm for Cloud Computing Systems. <i>Lecture Notes in Computer Science</i> , 2016, , 61-74.	1.0	15
63	Optimized Fuzzy Logic-Based Fire Monitoring in Underground Coal Mines: Binary Particle Swarm Optimization Approach. <i>IEEE Systems Journal</i> , 2020, 14, 3039-3046.	2.9	15
64	Multi-objective workflow scheduling scheme: a multi-criteria decision making approach. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 10789-10808.	3.3	15
65	A Flower Pollination Algorithm Based Task Scheduling in Cloud Computing. <i>Communications in Computer and Information Science</i> , 2017, , 97-107.	0.4	15
66	A distributed energy efficient and energy balanced routing algorithm for wireless sensor networks. , 2014, , .		14
67	A GA-based approach for fault tolerant relay node placement in wireless sensor networks. , 2015, , .		14
68	A multi-attribute decision making approach for on-demand charging scheduling in wireless rechargeable sensor networks. <i>Computing (Vienna/New York)</i> , 2021, 103, 1677.	3.2	14
69	An Energy efficient Load Balancing Algorithm for cluster-based wireless sensor networks. , 2012, , .		12
70	A routing load balanced trajectory design for mobile sink in wireless sensor networks. , 2016, , .		12
71	A delay efficient path selection strategy for mobile sink in wireless sensor networks. , 2017, , .		12
72	A novel approach for designing delay efficient path for mobile sink in wireless sensor networks. <i>Wireless Networks</i> , 2018, 24, 2337-2356.	2.0	12

#	ARTICLE	IF	CITATIONS
73	Relay node placement algorithm in wireless sensor network. , 2014, , .		11
74	Energy efficient fault-tolerant clustering algorithm for wireless sensor networks. , 2015, , .		11
75	A novel K-means based clustering algorithm for big data. , 2016, , .		11
76	Parallel algorithms for finding polynomial Roots on OTIS-torus. Journal of Supercomputing, 2010, 54, 139-153.	2.4	9
77	BDCP: A backoff-based distributed clustering protocol for wireless sensor networks. , 2013, , .		9
78	Indegree-based path design for mobile sink in wireless sensor networks. , 2016, , .		9
79	Scheme for tour planning of mobile sink in wireless sensor networks. IET Communications, 2020, 14, 430-439.	1.5	9
80	Sustainable and Optimized Data Collection via Mobile Edge Computing for Disjoint Wireless Sensor Networks. IEEE Transactions on Sustainable Computing, 2022, 7, 471-484.	2.2	9
81	A grid clustering algorithm using cluster boundaries. , 2012, , .		8
82	OTIS-MOT: an efficient interconnection network for parallel processing. Journal of Supercomputing, 2012, 59, 920-940.	2.4	8
83	E&sup>3&sup>BFT: Energy efficient and energy balanced fault tolerance clustering in Wireless Sensor Networks. , 2014, , .		8
84	A Gravitational Search Algorithm for Energy Efficient Multi-sink Placement in Wireless Sensor Networks. Lecture Notes in Computer Science, 2016, , 222-234.	1.0	8
85	Evolutionary Computing Approaches for Clustering and Routing in Wireless Sensor Networks. Advances in Computational Intelligence and Robotics Book Series, 2016, , 246-266.	0.4	8
86	SORTING AND ROUTING ON OTIS-MESH OF TREES. Parallel Processing Letters, 2010, 20, 145-154.	0.4	7
87	A PSO Based Fault Tolerant Routing Algorithm for Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2015, , 329-336.	0.5	7
88	An effective multi-objective workflow scheduling in cloud computing: A PSO based approach. , 2016, , .		7
89	Task duplication-based workflow scheduling for heterogeneous cloud environment. , 2016, , .		7
90	Evolutionary Computing Approaches for Clustering and Routing in Wireless Sensor Networks. , 2020, , 125-146.		7

#	ARTICLE	IF	CITATIONS
91	DMCP: A Distributed Mobile Charging Protocol in Wireless Rechargeable Sensor Networks. ACM Transactions on Sensor Networks, 2023, 19, 1-29.	2.3	7
92	Energy Efficient Algorithms for Hot Spot Problem in Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2016, , 509-517.	0.5	6
93	Parallel Algorithm for Conflict Graph on OTIS-Triangular Array. Lecture Notes in Computer Science, 2007, , 274-279.	1.0	6
94	An Efficient Parallel Sorting Algorithm on OTIS Mesh of Trees. , 2009, , .		5
95	Energy Efficient Clustering for Wireless Sensor Networks: A Gravitational Search Algorithm. Lecture Notes in Computer Science, 2016, , 247-259.	1.0	5
96	Transfer time-aware workflow scheduling for multi-cloud environment. , 2016, , .		5
97	A Hybrid Meta-heuristic Approach for Load Balanced Workflow Scheduling in IaaS Cloud. Lecture Notes in Computer Science, 2019, , 73-89.	1.0	5
98	Grid Based Adaptive Sleep for Prolonging Network Lifetime in Wireless Sensor Network. Procedia Computer Science, 2015, 46, 1140-1147.	1.2	4
99	Forward Load Aware Scheduling for Data-Intensive Workflow Applications in Cloud System. , 2016, , .		4
100	Energy efficient unequal clustering and routing algorithms for wireless sensor networks. , 2014, , .		3
101	Novel leases for IaaS cloud. , 2015, , .		3
102	An Effective Task Scheduling Approach for Cloud Computing Environment. Lecture Notes in Electrical Engineering, 2016, , 163-169.	0.3	3
103	Energy efficient algorithms to maximize lifetime of wireless sensor networks. , 2016, , .		3
104	DFDA: A Distributed Fault Detection Algorithm in Two Tier Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2015, , 739-746.	0.5	3
105	Clustering-Based Energy Efficient Task Offloading for Sustainable Fog Computing. IEEE Transactions on Sustainable Computing, 2023, 8, 56-67.	2.2	3
106	A General Framework for Class Label Specific Mutual Information Feature Selection Method. IEEE Transactions on Information Theory, 2022, 68, 7996-8014.	1.5	3
107	An efficient resource provisioning algorithm for workflow execution in cloud platform. Cluster Computing, 2022, 25, 4233-4255.	3.5	3
108	An improved MST-based clustering for biological data. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
109	A novel clustering algorithm using voronoi diagram. , 2012, , .		2
110	Hamiltonicity of a General OTIS Network. Lecture Notes in Computer Science, 2010, , 459-465.	1.0	2
111	Permutation algorithms on optical multi-trees. Computers and Mathematics With Applications, 2008, 56, 2656-2665.	1.4	1
112	A new distributed approach for building balanced ring for fault tolerance in mesh architecture. , 2009, , .		1
113	Improved Algorithms for Balanced Ring Formation for Fault Tolerance in A 2D Mesh. International Journal of Computers and Applications, 2010, 32, 232-237.	0.8	1
114	Fast parallel prefix on multi-mesh of trees. , 2010, , .		1
115	A Novel Clustering Algorithm for Biological Data. , 2011, , .		1
116	Efficient Overlay Construction for Wireless Sensor Networks. Wireless Personal Communications, 2016, 86, 959-973.	1.8	1