

# Prasanta K Jana

## List of Publications by Year in descending order

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116  
papers

4,467  
citations

117453

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h-index

118652

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117  
all docs

117  
docs citations

117  
times ranked

2644  
citing authors

#	ARTICLE	IF	CITATIONS
1	DMCP: A Distributed Mobile Charging Protocol in Wireless Rechargeable Sensor Networks. ACM Transactions on Sensor Networks, 2023, 19, 1-29.	2.3	7
2	Clustering-Based Energy Efficient Task Offloading for Sustainable Fog Computing. IEEE Transactions on Sustainable Computing, 2023, 8, 56-67.	2.2	3
3	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
4	A Survey on Mobile Charging Techniques in Wireless Rechargeable Sensor Networks. IEEE Communications Surveys and Tutorials, 2022, 24, 1750-1779.	24.8	28
5	A General Framework for Class Label Specific Mutual Information Feature Selection Method. IEEE Transactions on Information Theory, 2022, 68, 7996-8014.	1.5	3
6	An efficient resource provisioning algorithm for workflow execution in cloud platform. Cluster Computing, 2022, 25, 4233-4255.	3.5	3
7	A multi-attribute decision making approach for on-demand charging scheduling in wireless rechargeable sensor networks. Computing (Vienna/New York), 2021, 103, 1677.	3.2	14
8	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
9	Multi-objective workflow scheduling scheme: a multi-criteria decision making approach. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 10789-10808.	3.3	15
10	An efficient partial charging scheme using multiple mobile chargers in wireless rechargeable sensor networks. Ad Hoc Networks, 2021, 113, 102407.	3.4	18
11	An efficient scheme for trajectory design of mobile chargers in wireless sensor networks. Wireless Networks, 2020, 26, 897-912.	2.0	19
12	An Energy Efficient Algorithm for Workflow Scheduling in IaaS Cloud. Journal of Grid Computing, 2020, 18, 357-376.	2.5	37
13	Optimized Fuzzy Logic-Based Fire Monitoring in Underground Coal Mines: Binary Particle Swarm Optimization Approach. IEEE Systems Journal, 2020, 14, 3039-3046.	2.9	15
14	Scheme for tour planning of mobile sink in wireless sensor networks. IET Communications, 2020, 14, 430-439.	1.5	9
15	Evolutionary Computing Approaches for Clustering and Routing in Wireless Sensor Networks. , 2020, , 125-146.		7
16	An efficient scheduling scheme for on-demand mobile charging in wireless rechargeable sensor networks. Pervasive and Mobile Computing, 2019, 59, 101074.	2.1	51
17	Load balanced task scheduling for cloud computing: a probabilistic approach. Knowledge and Information Systems, 2019, 61, 1607-1631.	2.1	32
18	A Hybrid Meta-heuristic Approach for Load Balanced Workflow Scheduling in IaaS Cloud. Lecture Notes in Computer Science, 2019, , 73-89.	1.0	5

#	ARTICLE	IF	CITATIONS
19	An energy-efficient task scheduling algorithm for heterogeneous cloud computing systems. Cluster Computing, 2019, 22, 509-527.	3.5	81
20	Energy density based mobile sink trajectory in wireless sensor networks. Microsystem Technologies, 2019, 25, 1771-1781.	1.2	16
21	Task scheduling algorithms for multi-cloud systems: allocation-aware approach. Information Systems Frontiers, 2019, 21, 241-259.	4.1	45
22	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
23	A multi-objective and PSO based energy efficient path design for mobile sink in wireless sensor networks. Pervasive and Mobile Computing, 2018, 46, 122-136.	2.1	76
24	Application of wireless sensor network for environmental monitoring in underground coal mines: A systematic review. Journal of Network and Computer Applications, 2018, 106, 48-67.	5.8	125
25	A GSA based hybrid algorithm for bi-objective workflow scheduling in cloud computing. Future Generation Computer Systems, 2018, 83, 14-26.	4.9	123
26	An efficient scheduling scheme for mobile charger in on-demand wireless rechargeable sensor networks. Journal of Network and Computer Applications, 2018, 114, 123-134.	5.8	88
27	Normalization-Based Task Scheduling Algorithms for Heterogeneous Multi-Cloud Environment. Information Systems Frontiers, 2018, 20, 373-399.	4.1	63
28	A novel approach for designing delay efficient path for mobile sink in wireless sensor networks. Wireless Networks, 2018, 24, 2337-2356.	2.0	12
29	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
30	Relay Node Placement with Assured Coverage and Connectivity: A Jarvis March Approach. Wireless Personal Communications, 2018, 98, 1361-1381.	1.8	20
31	A hybrid MapReduce-based k-means clustering using genetic algorithm for distributed datasets. Journal of Supercomputing, 2018, 74, 1562-1579.	2.4	36
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	PSO-based approach for energy-efficient and energy-balanced routing and clustering in wireless sensor networks. Soft Computing, 2017, 21, 6825-6839.	2.1	74
34	A particle swarm optimization based energy efficient cluster head selection algorithm for wireless sensor networks. Wireless Networks, 2017, 23, 2005-2020.	2.0	301
35	SLA-based task scheduling algorithms for heterogeneous multi-cloud environment. Journal of Supercomputing, 2017, 73, 2730-2762.	2.4	66
36	Granularity-based workflow scheduling algorithm for cloud computing. Journal of Supercomputing, 2017, 73, 5440-5464.	2.4	17

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37	Energy efficient path selection for mobile sink and data gathering in wireless sensor networks. AEU - International Journal of Electronics and Communications, 2017, 73, 110-118.	1.7	108
38	A delay efficient path selection strategy for mobile sink in wireless sensor networks. , 2017, , .		12
39	A Flower Pollination Algorithm Based Task Scheduling in Cloud Computing. Communications in Computer and Information Science, 2017, , 97-107.	0.4	15
40	An effective multi-objective workflow scheduling in cloud computing: A PSO based approach. , 2016, , .		7
41	Task duplication-based workflow scheduling for heterogeneous cloud environment. , 2016, , .		7
42	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
43	Energy Efficient Clustering for Wireless Sensor Networks: A Gravitational Search Algorithm. Lecture Notes in Computer Science, 2016, , 247-259.	1.0	5
44	Transfer time-aware workflow scheduling for multi-cloud environment. , 2016, , .		5
45	Particle swarm optimization for maximizing lifetime of wireless sensor networks. Computers and Electrical Engineering, 2016, 51, 26-42.	3.0	64
46	A delay-bound efficient path design algorithm for mobile sink in wireless sensor networks. , 2016, , .		15
47	Indegree-based path design for mobile sink in wireless sensor networks. , 2016, , .		9
48	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
49	A routing load balanced trajectory design for mobile sink in wireless sensor networks. , 2016, , .		12
50	Compute-intensive workflow scheduling in multi-cloud environment. , 2016, , .		19
51	A novel K-means based clustering algorithm for big data. , 2016, , .		11
52	An Effective Task Scheduling Approach for Cloud Computing Environment. Lecture Notes in Electrical Engineering, 2016, , 163-169.	0.3	3
53	Energy efficient algorithms to maximize lifetime of wireless sensor networks. , 2016, , .		3
54	Energy efficient multipath routing for wireless sensor networks: A genetic algorithm approach. , 2016, , .		25

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55	Forward Load Aware Scheduling for Data-Intensive Workflow Applications in Cloud System. , 2016, , .		4
56	An Efficient Task Consolidation Algorithm for Cloud Computing Systems. Lecture Notes in Computer Science, 2016, , 61-74.	1.0	15
57	Uncertainty-Based QoS Min-Min Algorithm for Heterogeneous Multi-cloud Environment. Arabian Journal for Science and Engineering, 2016, 41, 3003-3025.	1.1	40
58	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
59	Genetic algorithm approach for k -coverage and m -connected node placement in target based wireless sensor networks. Computers and Electrical Engineering, 2016, 56, 544-556.	3.0	124
60	Energy Efficient Algorithms for Hot Spot Problem in Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2016, , 509-517.	0.5	6
61	Efficient Overlay Construction for Wireless Sensor Networks. Wireless Personal Communications, 2016, 86, 959-973.	1.8	1
62	Genetic Algorithm for k-Connected Relay Node Placement in Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2016, , 721-729.	0.5	36
63	PSO-Based Multiple-sink Placement Algorithm for Protracting the Lifetime of Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2016, , 605-616.	0.5	17
64	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
65	Grid Based Adaptive Sleep for Prolonging Network Lifetime in Wireless Sensor Network. Procedia Computer Science, 2015, 46, 1140-1147.	1.2	4
66	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
67	A PSO Based Fault Tolerant Routing Algorithm for Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2015, , 329-336.	0.5	7
68	Energy efficient fault-tolerant clustering algorithm for wireless sensor networks. , 2015, , .		11
69	An Efficient Resource Allocation Algorithm for IaaS Cloud. Lecture Notes in Computer Science, 2015, , 351-355.	1.0	17
70	Allocation-aware Task Scheduling for Heterogeneous Multi-cloud Systems. Procedia Computer Science, 2015, 50, 176-184.	1.2	34
71	Efficient task scheduling algorithms for heterogeneous multi-cloud environment. Journal of Supercomputing, 2015, 71, 1505-1533.	2.4	158
72	Energy Efficient Clustering and Routing Algorithms for Wireless Sensor Networks: GA Based Approach. Wireless Personal Communications, 2015, 83, 2403-2423.	1.8	89

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73	A GA-based approach for fault tolerant relay node placement in wireless sensor networks. , 2015, , .		14
74	A multi-objective task scheduling algorithm for heterogeneous multi-cloud environment. , 2015, , .		55
75	Novel leases for IaaS cloud. , 2015, , .		3
76	Energy and Coverage-Aware Routing Algorithm for Wireless Sensor Networks. Wireless Personal Communications, 2015, 81, 531-545.	1.8	20
77	Energy efficient fault tolerant clustering and routing algorithms for wireless sensor networks. Computers and Electrical Engineering, 2015, 41, 177-190.	3.0	134
78	A distributed algorithm for energy efficient and fault tolerant routing in wireless sensor networks. Wireless Networks, 2015, 21, 251-267.	2.0	65
79	Energy-aware routing algorithm for wireless sensor networks. Computers and Electrical Engineering, 2015, 41, 357-367.	3.0	163
80	DFDA: A Distributed Fault Detection Algorithm in Two Tier Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2015, , 739-746.	0.5	3
81	E&lt;sup>3&lt;/sup>BFT: Energy efficient and energy balanced fault tolerance clustering in Wireless Sensor Networks. , 2014, , .		8
82	An efficient task scheduling algorithm for heterogeneous multi-cloud environment. , 2014, , .		26
83	An efficient energy saving task consolidation algorithm for cloud computing systems. , 2014, , .		20
84	A smoothing based task scheduling algorithm for heterogeneous multi-cloud environment. , 2014, , .		20
85	Energy efficient unequal clustering and routing algorithms for wireless sensor networks. , 2014, , .		3
86	A distributed energy efficient and energy balanced routing algorithm for wireless sensor networks. , 2014, , .		14
87	Approximation schemes for load balanced clustering in wireless sensor networks. Journal of Supercomputing, 2014, 68, 87-105.	2.4	69
88	Energy efficient clustering and routing algorithms for wireless sensor networks: Particle swarm optimization approach. Engineering Applications of Artificial Intelligence, 2014, 33, 127-140.	4.3	422
89	Relay node placement algorithm in wireless sensor network. , 2014, , .		11
90	A novel differential evolution based clustering algorithm for wireless sensor networks. Applied Soft Computing Journal, 2014, 25, 414-425.	4.1	193

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91	BDCP: A backoff-based distributed clustering protocol for wireless sensor networks. , 2013, , .		9
92	GAR: An Energy Efficient GA-Based Routing for Wireless Sensor Networks. Lecture Notes in Computer Science, 2013, , 267-277.	1.0	66
93	A novel evolutionary approach for load balanced clustering problem for wireless sensor networks. Swarm and Evolutionary Computation, 2013, 12, 48-56.	4.5	224
94	A distributed fault-tolerant clustering algorithm for wireless sensor networks. , 2013, , .		42
95	Energy Efficient Load-Balanced Clustering Algorithm for Wireless Sensor Networks. Procedia Technology, 2012, 6, 771-777.	1.1	92
96	An improved MST-based clustering for biological data. , 2012, , .		2
97	A grid clustering algorithm using cluster boundaries. , 2012, , .		8
98	A novel clustering algorithm using voronoi diagram. , 2012, , .		2
99	An Energy efficient Load Balancing Algorithm for cluster-based wireless sensor networks. , 2012, , .		12
100	An energy balanced distributed clustering and routing algorithm for Wireless Sensor Networks. , 2012, , .		28
101	OTIS-MOT: an efficient interconnection network forÂparallel processing. Journal of Supercomputing, 2012, 59, 920-940.	2.4	8
102	Improved Load Balanced Clustering Algorithm for Wireless Sensor Networks. Lecture Notes in Computer Science, 2012, , 399-404.	1.0	30
103	A Novel Clustering Algorithm for Biological Data. , 2011, , .		1
104	Parallel algorithms for finding polynomial Roots onÂOTIS-torus. Journal of Supercomputing, 2010, 54, 139-153.	2.4	9
105	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
106	Fast parallel prefix on multi-mesh of trees. , 2010, , .		1
107	SORTING AND ROUTING ON OTIS-MESH OF TREES. Parallel Processing Letters, 2010, 20, 145-154.	0.4	7
108	Hamiltonicity of a General OTIS Network. Lecture Notes in Computer Science, 2010, , 459-465.	1.0	2

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109	An Efficient Parallel Sorting Algorithm on OTIS Mesh of Trees. , 2009, , .		5
110	A new distributed approach for building balanced ring for fault tolerance in mesh architecture. , 2009, , .		1
111	An efficient minimum spanning tree based clustering algorithm. , 2009, , .		21
112	Permutation algorithms on optical multi-trees. Computers and Mathematics With Applications, 2008, 56, 2656-2665.	1.4	1
113	Parallel Algorithm for Conflict Graph on OTIS-Triangular Array. Lecture Notes in Computer Science, 2007, , 274-279.	1.0	6
114	Polynomial interpolation and polynomial root finding on OTIS-mesh. Parallel Computing, 2006, 32, 301-312.	1.3	25
115	AN IMPROVED PARALLEL PREFIX ALGORITHM ON OTIS-MESH. Parallel Processing Letters, 2006, 16, 429-440.	0.4	22
116	Multi-mesh of trees with its parallel algorithms. Journal of Systems Architecture, 2004, 50, 193-206.	2.5	15