Ahmed M Khedr

List of Publications by Year
in descending order

70	1,366	279798	395702
		23	33
papers	citations	h-index	g-index

71	71	71	744
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	IBLEACH: intra-balanced LEACH protocol for wireless sensor networks. Wireless Networks, 2014, 20, 1515-1525.	3.0	96
2	Routing in Wireless Sensor Networks Using Optimization Techniques: A Survey. Wireless Personal Communications, 2020, 111, 2407-2434.	2.7	73
3	Cryptocurrency price prediction using traditional statistical and machine‑learning techniques: A survey. Intelligent Systems in Accounting, Finance and Management, 2021, 28, 3-34.	4.6	62
4	Effective algorithm for optimizing compressive sensing in IoT and periodic monitoring applications. Journal of Network and Computer Applications, 2019, 126, 12-28.	9.1	60
5	Cluster-Tree Routing Based Entropy Scheme for Data Gathering in Wireless Sensor Networks. IEEE Access, 2018, 6, 77372-77387.	4.2	58
6	An information entropy based-clustering algorithm for heterogeneous wireless sensor networks. Wireless Networks, 2020, 26, 1869-1886.	3.0	51
7	Distributed coverage hole detection and recovery scheme for heterogeneous wireless sensor networks. Computer Communications, 2018, 124, 61-75.	5.1	44
8	Data gathering via mobile sink in WSNs using game theory and enhanced ant colony optimization. Wireless Networks, 2020, 26, 2983-2998.	3.0	40
9	Effective Data Acquisition Protocol for Multi-Hop Heterogeneous Wireless Sensor Networks Using Compressive Sensing. Algorithms, 2015, 8, 910-928.	2.1	39
10	Coverage Hole Repair in WSNs Using Cascaded Neighbor Intervention. IEEE Sensors Journal, 2017, 17, 7209-7216.	4.7	39
11	Effective TDMA scheduling for tree-based data collection using genetic algorithm in wireless sensor networks. Peer-to-Peer Networking and Applications, 2020, 13, 796-815.	3.9	39
12	Distributed trajectory design for data gathering using mobile sink in wireless sensor networks. AEU - International Journal of Electronics and Communications, 2018, 96, 1-12.	2.9	36
13	SATC: A Simulated Annealing Based Tree Construction and Scheduling Algorithm for Minimizing Aggregation Time in Wireless Sensor Networks. Wireless Personal Communications, 2019, 108, 921-938.	2.7	36
14	Effective target tracking mechanism in a self-organizing wireless sensor network. Journal of Parallel and Distributed Computing, 2011, 71, 1318-1326.	4.1	34
15	Successors of PEGASIS protocol: A comprehensive survey. Computer Science Review, 2021, 39, 100368.	15.3	33
16	Perimeter discovery in wireless sensor networks. Journal of Parallel and Distributed Computing, 2009, 69, 922-929.	4.1	29
17	Coverage, Deployment and Localization Challenges in Wireless Sensor Networks Based on Artificial Intelligence Techniques: A Review. IEEE Access, 2022, 10, 30232-30257.	4.2	29
18	Opportunistically Exploiting Internet of Things for Wireless Sensor Network Routing in Smart Cities. Journal of Sensor and Actuator Networks, 2018, 7, 46.	3.9	27

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19	A Coverage Maintenance Algorithm for Mobile WSNs With Adjustable Sensing Range. IEEE Sensors Journal, 2020, 20, 1582-1591.	4.7	27
20	Recent Studies Utilizing Artificial Intelligence Techniques for Solving Data Collection, Aggregation and Dissemination Challenges in Wireless Sensor Networks: A Review. Electronics (Switzerland), 2022, 11, 313.	3.1	27
21	Mobility-assisted minimum connected cover in a wireless sensor network. Journal of Parallel and Distributed Computing, 2012, 72, 827-837.	4.1	26
22	Grey Wolf based compressive sensing scheme for data gathering in IoT based heterogeneous WSNs. Wireless Networks, 2020, 26, 3395-3418.	3.0	26
23	Minimum perimeter coverage of query regions in a heterogeneous wireless sensor network. Information Sciences, 2011, 181, 3130-3142.	6.9	25
24	An Efficient Compressive Sensing Routing Scheme for Internet of Things Based Wireless Sensor Networks. Wireless Personal Communications, 2020, 114, 1905-1925.	2.7	23
25	Minimum connected cover of a query region in heterogeneous wireless sensor networks. Information Sciences, 2013, 223, 153-163.	6.9	22
26	An Efficient Association Rule Mining From Distributed Medical Databases for Predicting Heart Diseases. IEEE Access, 2021, 9, 15320-15333.	4.2	22
27	A topology discovery algorithm for sensor network using smart antennas. Computer Communications, 2006, 29, 2261-2268.	5.1	20
28	IDCT: Intelligent Data Collection Technique for IoT-Enabled Heterogeneous Wireless Sensor Networks in Smart Environments. IEEE Sensors Journal, 2021, 21, 21099-21112.	4.7	20
29	ADSDA: Adaptive Distributed Service Discovery Algorithm for Internet of Things Based Mobile Wireless Sensor Networks. IEEE Sensors Journal, 2019, 19, 10869-10880.	4.7	19
30	Effective Sensor Relocation Technique in Mobile Sensor Networks. International Journal of Computer Networks and Communications, 2011, 3, 204-217.	0.3	18
31	A Secure Data Gathering Scheme Based on Properties of Primes and Compressive Sensing for IoT-Based WSNs. IEEE Sensors Journal, 2021, 21, 5553-5571.	4.7	16
32	A Multi-Layer Perceptron Approach to Financial Distress Prediction with Genetic Algorithm. Automatic Control and Computer Sciences, 2020, 54, 475-482.	0.8	16
33	IPDCA: Intelligent Proficient Data Collection Approach for IoT-Enabled Wireless Sensor Networks in Smart Environments. Electronics (Switzerland), 2021, 10, 997.	3.1	14
34	Coverage aware face topology structure for wireless sensor network applications. Wireless Networks, 2020, 26, 4557-4577.	3.0	13
35	Sensor network node scheduling for preserving coverage of wireless multimedia networks. IET Wireless Sensor Systems, 2019, 9, 295-305.	1.7	13
36	An Enhanced Sparrow Search Based Adaptive and Robust Data Gathering Scheme for WSNs. IEEE Sensors Journal, 2022, 22, 10602-10612.	4.7	13

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37	A distributed self-healing coverage hole detection and repair scheme for mobile wireless sensor networks. Sustainable Computing: Informatics and Systems, 2021, 30, 100428.	2.2	10
38	Using a Hybrid-Classification Method to Analyze Twitter Data During Critical Events. IEEE Access, 2021, 9, 141023-141035.	4.2	10
39	SEEDGT: Secure and energy efficient data gathering technique for IoT applications based WSNs. Journal of Network and Computer Applications, 2022, 202, 103353.	9.1	10
40	EDGO: UAV-based effective data gathering scheme for wireless sensor networks with obstacles. Wireless Networks, 2022, 28, 2499-2518.	3.0	10
41	Decomposable algorithms for nearest neighbor computing. Journal of Parallel and Distributed Computing, 2008, 68, 902-912.	4.1	9
42	A Novel Association Rule-Based Data Mining Approach for Internet of Things Based Wireless Sensor Networks. IEEE Access, 2020, 8, 151574-151588.	4.2	9
43	A Comparative Analysis of Machine Learning Classifiers and Ensemble Techniques in Financial Distress Prediction. , 2020, , .		9
44	Effective Scheduling Strategy in Wireless Multimedia Sensor Networks for Critical Surveillance Applications. Applied Mathematics and Information Sciences, 2018, 12, 101-111.	0.5	9
45	Fuzzy-Based Multi-Layered Clustering and ACO-Based Multiple Mobile Sinks Path Planning for Optimal Coverage in WSNs. IEEE Sensors Journal, 2022, 22, 7277-7287.	4.7	9
46	Decomposable algorithm for computing k-nearest neighbours across partitioned data. International Journal of Parallel, Emergent and Distributed Systems, 2016, 31, 334-353.	1.0	8
47	Chain-routing scheme with compressive sensing-based data acquisition for Internet of Things-based wireless sensor networks. IET Networks, 2021, 10, 43-58.	1.8	8
48	Optimising compressive sensing matrix using Chicken Swarm Optimisation algorithm. IET Wireless Sensor Systems, 2019, 9, 306-312.	1.7	7
49	Adaptive and Dynamic Mechanism for Round Length Determination in Cluster Based Wireless Sensor Networks. Wireless Personal Communications, 2020, 114, 1155-1175.	2.7	7
50	Deterministic clustering based compressive sensing scheme for fog-supported heterogeneous wireless sensor networks. PeerJ Computer Science, 2021, 7, e463.	4.5	7
51	EDCCS: effective deterministic clustering scheme based compressive sensing to enhance IoT based WSNs. Wireless Networks, 2022, 28, 2375-2391.	3.0	6
52	New Localization Technique for Mobile Wireless Sensor Networks Using Sectorized Antenna. International Journal of Communications, Network and System Sciences, 2015, 08, 329-341.	0.6	5
53	Compressive sensing based secure data aggregation scheme for IoT based WSN applications. PLoS ONE, 2021, 16, e0260634.	2.5	5
54	A Redundancy-Aware Face Structure for Wireless Sensor Networks. , 2018, , .		4

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55	Iterative Selection and Correction Based Adaptive Greedy Algorithm for Compressive Sensing Reconstruction. Wireless Personal Communications, 2021, 116, 3277-3289.	2.7	4
56	DRNNA: Decomposable Reverse Nearest Neighbor Algorithm for Vertically Distributed Databases. , 2021, , .		4
57	An adaptive coverage aware data gathering scheme using KD-tree and ACO for WSNs with mobile sink. Journal of Supercomputing, 2022, 78, 13530-13553.	3.6	4
58	Location-free Minimum Coverage Determination in a Heterogeneous Wireless Sensor Network. Procedia Computer Science, 2015, 65, 48-57.	2.0	3
59	Iterative selection and correction based adaptive greedy algorithm for compressive sensing reconstruction. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 892-900.	3.9	3
60	GWRA: grey wolf based reconstruction algorithm for compressive sensing signals. PeerJ Computer Science, 2019, 5, e217.	4.5	3
61	Home Automation Using Augmented Reality (HAAR). Wireless Personal Communications, 2022, 124, 1525-1555.	2.7	3
62	An optimization-based coverage aware path planning algorithm for multiple mobile collectors in wireless sensor networks. Wireless Networks, 2022, 28, 2155-2168.	3.0	3
63	Heterogeneous-Aware Distributed Clustering for Wireless Sensor Networks. , 2018, , .		2
64	Prediction of Financial Statement Fraud using Machine Learning Techniques in UAE. , 2021, , .		2
65	An Energy Efficient Data Gathering Protocol for Heterogeneous Mobile Wireless Sensor Networks. , 2020, , .		2
66	FACS: Fairness aware clustering scheme for monitoring applications of internet of things based wireless sensor networks. Journal of King Saud University - Computer and Information Sciences, 2022, , .	3.9	2
67	An Enhanced Evolutionary Scheme for Obstacle-Aware Data Gathering in UAV-assisted WSNs. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 16299-16311.	4.9	2
68	A Study on the Statistical Properties of the Prime Numbers Using the Classical and Superstatistical Random Matrix Theories. Advances in Mathematical Physics, 2021, 2021, 1-17.	0.8	1
69	An information entropy based-clustering algorithm for heterogeneous wireless sensor networks. , 2020, 26, 1869.		1
70	New Efficient Algorithm for Distributed Database Classification. , 2021, , .		0