Walid Osamy

List of Publications by Year
in descending order

43 papers	1,001 citations	361413 20 h-index	454955 30 g-index
43 all docs	43 docs citations	43 times ranked	591 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	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
4	Cluster-Tree Routing Based Entropy Scheme for Data Gathering in Wireless Sensor Networks. IEEE Access, 2018, 6, 77372-77387.	4.2	58
5	An information entropy based-clustering algorithm for heterogeneous wireless sensor networks. Wireless Networks, 2020, 26, 1869-1886.	3.0	51
6	CSOCA: Chicken Swarm Optimization Based Clustering Algorithm for Wireless Sensor Networks. IEEE Access, 2020, 8, 60676-60688.	4.2	45
7	Distributed coverage hole detection and recovery scheme for heterogeneous wireless sensor networks. Computer Communications, 2018, 124, 61-75.	5.1	44
8	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
9	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
10	Effective target tracking mechanism in a self-organizing wireless sensor network. Journal of Parallel and Distributed Computing, 2011, 71, 1318-1326.	4.1	34
11	Successors of PEGASIS protocol: A comprehensive survey. Computer Science Review, 2021, 39, 100368.	15.3	33
12	Perimeter discovery in wireless sensor networks. Journal of Parallel and Distributed Computing, 2009, 69, 922-929.	4.1	29
13	Distributed multi chain compressive sensing based routing algorithm for wireless sensor networks. Wireless Networks, 2015, 21, 1379-1390.	3.0	29
14	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
15	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
16	Mobility-assisted minimum connected cover in a wireless sensor network. Journal of Parallel and Distributed Computing, 2012, 72, 827-837.	4.1	26
17	Grey Wolf based compressive sensing scheme for data gathering in IoT based heterogeneous WSNs. Wireless Networks, 2020, 26, 3395-3418.	3.0	26
18	Minimum perimeter coverage of query regions in a heterogeneous wireless sensor network. Information Sciences, 2011, 181, 3130-3142.	6.9	25

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19	An Efficient Compressive Sensing Routing Scheme for Internet of Things Based Wireless Sensor Networks. Wireless Personal Communications, 2020, 114, 1905-1925.	2.7	23
20	Minimum connected cover of a query region in heterogeneous wireless sensor networks. Information Sciences, 2013, 223, 153-163.	6.9	22
21	A topology discovery algorithm for sensor network using smart antennas. Computer Communications, 2006, 29, 2261-2268.	5.1	20
22	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
23	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
24	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
25	IPDCA: Intelligent Proficient Data Collection Approach for IoT-Enabled Wireless Sensor Networks in Smart Environments. Electronics (Switzerland), 2021, 10, 997.	3.1	14
26	Sensor network node scheduling for preserving coverage of wireless multimedia networks. IET Wireless Sensor Systems, 2019, 9, 295-305.	1.7	13
27	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
28	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
29	Effective Scheduling Strategy in Wireless Multimedia Sensor Networks for Critical Surveillance Applications. Applied Mathematics and Information Sciences, 2018, 12, 101-111.	0.5	9
30	Sparse Signals Reconstruction via Adaptive Iterative Greedy Algorithm. International Journal of Computer Applications, 2014, 90, 5-11.	0.2	9
31	Chainâ€routing scheme with compressive sensingâ€based data acquisition for Internet of Thingsâ€based wireless sensor networks. IET Networks, 2021, 10, 43-58.	1.8	8
32	Optimising compressive sensing matrix using Chicken Swarm Optimisation algorithm. IET Wireless Sensor Systems, 2019, 9, 306-312.	1.7	7
33	Adaptive and Dynamic Mechanism for Round Length Determination in Cluster Based Wireless Sensor Networks. Wireless Personal Communications, 2020, 114, 1155-1175.	2.7	7
34	Deterministic clustering based compressive sensing scheme for fog-supported heterogeneous wireless sensor networks. PeerJ Computer Science, 2021, 7, e463.	4.5	7
35	EDCCS: effective deterministic clustering scheme based compressive sensing to enhance IoT based WSNs. Wireless Networks, 2022, 28, 2375-2391.	3.0	6
36	Compressive sensing based secure data aggregation scheme for IoT based WSN applications. PLoS ONE, 2021, 16, e0260634.	2.5	5

#	Article	IF	Citations
37	Iterative Selection and Correction Based Adaptive Greedy Algorithm for Compressive Sensing Reconstruction. Wireless Personal Communications, 2021, 116, 3277-3289.	2.7	4
38	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
39	Compressive sensing based routing and data reconstruction scheme for IoT based WSNs. Journal of Intelligent and Fuzzy Systems, 2021, 41, 19-35.	1.4	3
40	GWRA: grey wolf based reconstruction algorithm for compressive sensing signals. PeerJ Computer Science, 2019, 5, e217.	4.5	3
41	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
42	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
43	An information entropy based-clustering algorithm for heterogeneous wireless sensor networks. , 2020, 26, 1869.		1