Samayveer Singh

List of Publications by Year
in descending order

65 papers	901 citations	516710 16 h-index	552781 26 g-index
70 all docs	70 docs citations	70 times ranked	421 citing authors

#	Article	IF	Citations
1	Heterogeneous HEED Protocol for Wireless Sensor Networks. Wireless Personal Communications, 2014, 77, 2117-2139.	2.7	91
2	Energy efficient heterogeneous DEEC protocol for enhancing lifetime in WSNs. Engineering Science and Technology, an International Journal, 2017, 20, 345-353.	3.2	72
3	Energy Efficient Clustering Protocol Using Fuzzy Logic for Heterogeneous WSNs. Wireless Personal Communications, 2016, 86, 451-475.	2.7	51
4	Recovery based high capacity reversible data hiding scheme using even-odd embedding. Multimedia Tools and Applications, 2018, 77, 15803-15827.	3.9	45
5	NEECP: Novel energyâ€efficient clustering protocol for prolonging lifetime of WSNs. IET Wireless Sensor Systems, 2016, 6, 151-157.	1.7	40
6	Proficient QoS-Based Target Coverage Problem in Wireless Sensor Networks. IEEE Access, 2020, 8, 74315-74325.	4.2	36
7	An efficient cluster head election based on optimized genetic algorithm for movable sinks in IoT enabled HWSNs. Applied Soft Computing Journal, 2021, 107, 107318.	7.2	33
8	An Improved Histogram-Shifting-Imitated reversible data hiding based on HVS characteristics. Multimedia Tools and Applications, 2018, 77, 13445-13457.	3.9	32
9	A Comprehensive Study of Reversible Data Hiding (RDH) Schemes Based on Pixel Value Ordering (PVO). Archives of Computational Methods in Engineering, 2021, 28, 3517-3568.	10.2	28
10	Multilevel heterogeneous network model for wireless sensor networks. Telecommunication Systems, 2017, 64, 259-277.	2.5	27
11	Adaptive PVD and LSB based high capacity data hiding scheme. Multimedia Tools and Applications, 2020, 79, 18815-18837.	3.9	26
12	A Green Data Collection & Transmission Method for IoT-Based WSN in Disaster Management. IEEE Sensors Journal, 2021, 21, 25912-25921.	4.7	24
13	An energy aware clustering and data gathering technique based on nature inspired optimization in WSNs. Peer-to-Peer Networking and Applications, 2020, 13, 1357-1374.	3.9	21
14	Energy efficient multilevel network model for heterogeneous WSNs. Engineering Science and Technology, an International Journal, 2017, 20, 105-115.	3.2	19
15	An Optimized Genetic Algorithm for Cluster Head Election Based on Movable Sinks and Adjustable Sensing Ranges in IoT-Based HWSNs. IEEE Internet of Things Journal, 2022, 9, 5027-5039.	8.7	19
16	An Energy-Efficient Modified Metaheuristic Inspired Algorithm for Disaster Management System Using WSNs. IEEE Sensors Journal, 2021, 21, 15398-15408.	4.7	18
17	A space based reversible high capacity text steganography scheme using font type and style. , 2016, , .		17
18	An optimal high capacity reversible data hiding scheme using move to front coding for LZW codes. Multimedia Tools and Applications, 2019, 78, 22977-23001.	3.9	16

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19	A high capacity email based text steganography scheme using Huffman compression. , 2016, , .		14
20	Evaluating Authentication Schemes for Real-Time Data in Wireless Sensor Network. Wireless Personal Communications, 2020, 114, 629-655.	2.7	13
21	hetSEP: Heterogeneous SEP protocol for increasing lifetime in WSNs. Journal of Information and Optimization Sciences, 2017, 38, 721-743.	0.3	12
22	SMAC-AS: MAC Based Secure Authentication Scheme for Wireless Sensor Network. Wireless Personal Communications, 2019, 107, 1289-1308.	2.7	12
23	Highâ€quality reversible data hiding scheme using sorting and enhanced pairwise PEE. IET Image Processing, 2022, 16, 1096-1110.	2.5	12
24	A secure energy-efficient routing protocol for disease data transmission using IoMT. Computers and Electrical Engineering, 2022, 101, 108113.	4.8	12
25	A robust digital ECG signal watermarking and compression using biorthogonal wavelet transform. Research on Biomedical Engineering, 2021, 37, 79-85.	2.2	11
26	Energy-Efficient Routing Protocols for Cluster-Based Heterogeneous Wireless Sensor Network (HetWSN)â€"Strategies and Challenges: A Review. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 853-878.	0.7	11
27	hetADEEPS: ADEEPS for Heterogeneous Wireless Sensor Networks. International Journal of Future Generation Communication and Networking, 2013, 6, 21-32.	0.7	11
28	3-Level Heterogeneity Model for Wireless Sensor Networks. International Journal of Computer Network and Information Security, 2013, 5, 40-47.	1.9	11
29	A reversible high capacity data hiding scheme using combinatorial strategy. International Journal of Multimedia Intelligence and Security, 2018, 3, 146.	0.1	10
30	Reversible data hiding scheme for LZW codes using even-odd embedding strategy. , 2016, , .		9
31	An Email based high capacity text steganography scheme using combinatorial compression. , 2014, , .		8
32	hetDEEC: Heterogeneous DEEC protocol for prolonging lifetime in wireless sensor networks. Journal of Information and Optimization Sciences, 2017, 38, 699-720.	0.3	8
33	Human Visual System Based Enhanced AMBTC for Color Image Compression Using Interpolation. , 2019, , .		8
34	A High Capacity Reversible Data Hiding Technique Based on Pixel Value Ordering Using Interlock Partitioning. , 2020, , .		8
35	PVO based reversible data hiding technique for roughly textured images. Multidimensional Systems and Signal Processing, 2021, 32, 533-558.	2.6	8
36	A threshold-based energy efficient military surveillance system using heterogeneous wireless sensor networks. Soft Computing, 2023, 27, 1163-1176.	3.6	8

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37	A proficient data gathering technique for unmanned aerial vehicleâ€enabled heterogeneous wireless sensor networks. International Journal of Communication Systems, 2021, 34, e4956.	2.5	8
38	An energy efficient clustering protocol with fuzzy logic for WSNs. , 2014, , .		7
39	A Clustering-Based Optimized Stable Election Protocol in Wireless Sensor Networks. EAI/Springer Innovations in Communication and Computing, 2021, , 157-176.	1.1	7
40	Performance investigation of heterogeneous algorithms in WSNs. , 2013, , .		6
41	A sustainable data gathering technique based on nature inspired optimization in WSNs. Sustainable Computing: Informatics and Systems, 2019, 24, 100354.	2.2	6
42	RCBE-AS: Rabin cryptosystemâ€"based efficient authentication scheme for wireless sensor networks. Personal and Ubiquitous Computing, 2024, 28, 171-192.	2.8	6
43	A Proficient Node Deployment Mechanism Using Adjustable Sensing Range in Wireless Sensor Networks. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 191-199.	2.3	5
44	Energy efficient hotspot problem mitigation techniques using multiple mobile sink in heterogeneous wireless sensor network. International Journal of Communication Systems, 2020, 33, e4641.	2.5	5
45	Performance Investigation of Energy Efficient HetSEP for Prolonging Lifetime in WSNs. Communications in Computer and Information Science, 2019, , 496-509.	0.5	5
46	An Effective Analysis and Performance Investigation of Energy Heterogeneity in Wireless Sensor Networks. Advances in Intelligent Systems and Computing, 2020, , 157-194.	0.6	5
47	Reversible Data Hiding Scheme for LZW Codes using LSB Flipping Strategy. , 2016, , .		4
48	Low bandwidth data hiding for multimedia systems based on bit redundancy. Multimedia Tools and Applications, 2022, 81, 35027-35045.	3.9	4
49	Distributed Algorithms for Maximizing Lifetime of WSNs with Heterogeneity and Adjustable Sensing Range for Different Deployment Strategies. International Journal of Information Technology and Computer Science, 2013, 5, 101-108.	1.0	4
50	A heterogeneous power efficient load balancing target-monitoring protocol for sensor networks. , 2010, , .		3
51	Optimum deployment of sensors in WSNs. , 2014, , .		3
52	3-Tier Heterogeneous Network Model for Increasing Lifetime in Three Dimensional WSNs. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 238-247.	0.3	3
53	An Efficient and Secure Authentication Scheme using Markov Chain for Wireless Sensor Networks. , 2018, , .		2
54	OCHEP: An Optimized Cluster Head Election Protocol for Heterogeneous WSNs. Lecture Notes in Electrical Engineering, 2021, , 167-182.	0.4	2

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55	Heterogeneous Energy Efficient Protocol for Enhancing the Lifetime in WSNs. International Journal of Information Technology and Computer Science, 2016, 8, 62-72.	1.0	2
56	A Distributed Energy-Efficient Target Tracking Protocol for Three Level Heterogeneous Sensor Networks. International Journal of Computer Applications, 2012, 51, 31-36.	0.2	2
57	Anonymity Preserving Authentication and Key Agreement Scheme for Wireless Sensor Networks. Communications in Computer and Information Science, 2019, , 484-495.	0.5	2
58	A stage-4 heterogeneous network model in WSNs. , 2014, , .		1
59	Optimum sink location for sensor deployment in wireless sensor networks. Journal of Information and Optimization Sciences, 2016, 37, 605-619.	0.3	1
60	Performance Evaluation of Distributed Protocols Using Different Levels of Heterogeneity Models in Wireless Sensor Networks. International Journal of Computer Network and Information Security, 2014, 7, 38-45.	1.9	1
61	Genetic algorithm-based data controlling method using IoT-enabled WSN in power grid. Soft Computing, 0, , .	3.6	1
62	An Efficient Biometric based three-factor authentication scheme for Wireless Sensor Network. , 2018, , .		0
63	Learning Automata Based Heuristics for Target Q-Coverage. , 2020, , .		0
64	Gray-Version Invariant Reversible Data Hiding Scheme Based on 2D Histogram Modification for Color Images. Lecture Notes in Electrical Engineering, 2021, , 343-351.	0.4	0
65	A Clustering Based Optimized PEGASIS in Wireless Sensor Networks. Communications in Computer and Information Science, 2020, , 177-195.	0.5	0