

D K Lobiyal

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

836
citations

15
h-index

25
g-index

111
ext. papers

1,028
ext. citations

1.7
avg, IF

4.98
L-index

#	Paper	IF	Citations
93	An Advanced DV-Hop Localization Algorithm for Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2013 , 71, 1365-1385	1.9	76
92	Voronoi diagram and convex hull based geocasting and routing in wireless networks. <i>Wireless Communications and Mobile Computing</i> , 2006 , 6, 247-258	1.9	56
91	Bézier curves based on Lupa \llbracket p,q \rrbracket -analogue of Bernstein functions in CAGD. <i>Journal of Computational and Applied Mathematics</i> , 2017 , 317, 458-477	2.4	45
90	Performance improvement in geographic routing for Vehicular Ad Hoc Networks. <i>Sensors</i> , 2014 , 14, 2234-2271	3.71	43
89	Novel DV-Hop localization algorithm for wireless sensor networks. <i>Telecommunication Systems</i> , 2017 , 64, 509-524	2.3	41
88	Multiobjective Dynamic Vehicle Routing Problem and Time Seed Based Solution Using Particle Swarm Optimization. <i>Journal of Sensors</i> , 2015 , 2015, 1-14	2	37
87	Power efficient range-free localization algorithm for wireless sensor networks. <i>Wireless Networks</i> , 2014 , 20, 681-694	2.5	35
86	Cloud Computing in VANETs: Architecture, Taxonomy, and Challenges. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2018 , 35, 523-547	1.5	34
85	Energy-aware Cluster Head Selection Using Particle Swarm Optimization and Analysis of Packet Retransmissions in WSN. <i>Procedia Technology</i> , 2012 , 4, 171-176		31
84	Analytical Evaluation of Directional-Location Aided Routing Protocol for VANETs. <i>Wireless Personal Communications</i> , 2015 , 82, 1877-1891	1.9	28
83	Energy Efficient Multipath Routing Algorithm for Wireless Multimedia Sensor Network. <i>Sensors</i> , 2019 , 19,	3.8	26
82	T-MQM: Testbed-Based Multi-Metric Quality Measurement of Sensor Deployment for Precision Agriculture A Case Study. <i>IEEE Sensors Journal</i> , 2016 , 1-1	4	19
81	Energy Balanced Model for Lifetime Maximization in Randomly Distributed Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2014 , 78, 407-428	1.9	18
80	An energy-efficient adaptive clustering algorithm with load balancing for wireless sensor network. <i>International Journal of Sensor Networks</i> , 2012 , 12, 37	0.8	18
79	B-MFR routing protocol for vehicular ad hoc networks 2010 ,		18
78	Voronoi diagram and convex hull based geocasting and routing in wireless networks		15
77	A Multi-Level Strategy for Energy Efficient Data Aggregation in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2013 , 72, 1513-1531	1.9	14

76	Parameter Value Optimization of Ad-hoc on Demand Multipath Distance Vector Routing Using Particle Swarm Optimization. <i>Procedia Computer Science</i> , 2015 , 46, 151-158	1.6	13
75	Proficiency Analysis of AODV, DSR and TORA Ad-hoc Routing Protocols for Energy Holes Problem in Wireless Sensor Networks. <i>Procedia Computer Science</i> , 2015 , 57, 1057-1066	1.6	13
74	Impact of Interference on Coverage in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2014 , 74, 683-701	1.9	12
73	An extractive text summarization approach using tagged-LDA based topic modeling. <i>Multimedia Tools and Applications</i> , 2021 , 80, 3275-3305	2.5	12
72	Energy Consumption Reduction in S-MAC Protocol for Wireless Sensor Network. <i>Procedia Computer Science</i> , 2018 , 143, 757-764	1.6	12
71	Prediction Models for Energy Efficient Data Aggregation in Wireless Sensor Network. <i>Wireless Personal Communications</i> , 2015 , 84, 1325-1343	1.9	11
70	Dynamic User Preference Based Network Selection for Vertical Handoff in Heterogeneous Wireless Networks. <i>Wireless Personal Communications</i> , 2018 , 98, 725-742	1.9	10
69	An elitist nondominated sorting genetic algorithm for QoS multicast routing in wireless networks. <i>Swarm and Evolutionary Computation</i> , 2017 , 33, 85-92	9.8	10
68	E-DIR: a directional routing protocol for VANETs in a city traffic environment. <i>International Journal of Information and Communication Technology</i> , 2011 , 3, 242	0.1	10
67	Ant based Pareto optimal solution for QoS aware energy efficient multicast in wireless networks. <i>Applied Soft Computing Journal</i> , 2017 , 55, 72-81	7.5	9
66	An Enhanced DV-Hop Localization Algorithm for Wireless Sensor Networks. <i>International Journal of Wireless Networks and Broadband Technologies</i> , 2012 , 2, 16-35	0.2	9
65	Cross-layer optimization using two-level dual decomposition in multi-flow ad-hoc networks. <i>Telecommunication Systems</i> , 2017 , 66, 639-655	2.3	8
64	Optimization of Value of Parameters in Ad-hoc on Demand Multipath Distance Vector Routing Using Teaching-Learning Based Optimization. <i>Procedia Computer Science</i> , 2015 , 57, 1332-1341	1.6	7
63	Energy-aware bee colony approach to extend lifespan of wireless sensor network. <i>Australian Journal of Multi-Disciplinary Engineering</i> , 2017 , 13, 29-46	0.4	7
62	Multi-Gateway-Based Energy Holes Avoidance Routing Protocol for WSN. <i>Informatics</i> , 2016 , 3, 5	2.2	7
61	Automatic Construction of Generic Stop Words List for Hindi Text. <i>Procedia Computer Science</i> , 2018 , 132, 362-370	1.6	7
60	Vertical handoff in heterogeneous wireless networks: A tutorial 2017 ,		6
59	Energy Efficient Probabilistic Clustering Technique for Data Aggregation in Wireless Sensor Network. <i>Wireless Personal Communications</i> , 2017 , 96, 4099-4113	1.9	5

58	Probabilistic Intrusion Detection in Randomly Deployed Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2015 , 84, 1017-1037	1.9	5
57	Probabilistic Data Aggregation in Information-based Clustered Sensor Network. <i>Wireless Personal Communications</i> , 2014 , 77, 1287-1310	1.9	5
56	Traffic-Aware Density-Based Sleep Scheduling and Energy Modeling for Two Dimensional Gaussian Distributed Wireless Sensor Network. <i>Wireless Personal Communications</i> , 2013 , 70, 1373-1396	1.9	5
55	An Entropic Approach to Data Aggregation with Divergence Measure Based Clustering in Sensor Network. <i>Communications in Computer and Information Science</i> , 2011 , 132-142	0.3	5
54	Semantic and keyword based web techniques in information retrieval 2016 ,		5
53	Energy efficient cross-layer design in MANETs 2017 ,		4
52	Location Based Contact Time Energy Efficient Routing (LCTEE) Approach for Delay Tolerant Networks. <i>Wireless Personal Communications</i> , 2019 , 108, 2639-2662	1.9	4
51	Multiobjective multicast routing in wireless ad hoc networks - An Ant Colony approach 2013 ,		4
50	miRNA prediction using computational approach. <i>Advances in Experimental Medicine and Biology</i> , 2011 , 696, 75-82	3.6	4
49	DSR with link prediction using Pareto distribution 2010 ,		4
48	Word2vec Distributed Word Representation for Hindi Word Sense Disambiguation. <i>Lecture Notes in Computer Science</i> , 2020 , 325-335	0.9	4
47	Improved 3-dimensional DV-hop localization algorithm based on information of nearby nodes. <i>Wireless Networks</i> , 2021 , 27, 1801-1819	2.5	4
46	An Analytical Approach to Position-Based Routing Protocol for Vehicular Ad Hoc Networks. <i>Communications in Computer and Information Science</i> , 2012 , 147-156	0.3	3
45	A MAC approach for dynamic power control in wireless sensor network 2011 ,		3
44	An Analytical Model for Power Control T-MAC Protocol. <i>International Journal of Computer Applications</i> , 2010 , 12, 13-18	1.1	3
43	Multi-class Classification of Sentiments in Hindi Sentences Based on Intensities 2018 , 251-266		3
42	Performance modeling and optimization of multiple-objective cross-layer design in multi-flow ad-hoc networks. <i>International Journal of Communication Systems</i> , 2019 , 32, e3861	1.7	3
41	Dynamic user preference based group vertical handoffs in heterogeneous wireless networks: a non-cooperative game approach. <i>Wireless Networks</i> , 2020 , 26, 775-789	2.5	3

40	Word sense disambiguation using implicit information. <i>Natural Language Engineering</i> , 2020 , 26, 413-432	1.1	3
39	Sensing Coverage for Wireless Sensor Networks in Shadowed Rician Fading Environments. <i>Wireless Personal Communications</i> , 2020 , 110, 1109-1125	1.9	3
38	Levenberg-Marquardt optimization method for coverage and connectivity control in backbone-based wireless networks. <i>International Journal of Communication Systems</i> , 2017 , 30, e3296	1.7	2
37	Utility-based performance analysis of cross-layer design in multi-flow ad-hoc networks. <i>International Journal of Information Technology (Singapore)</i> , 2017 , 9, 377-387	1.4	2
36	A sensitive on-chip probe-based portable nuclear magnetic resonance for detecting low parasitaemia plasmodium falciparum in human blood. <i>Medical Devices & Sensors</i> , 2020 , 3, e10098	1.6	2
35	Effect of Mobility Models on the Performance of LAR Protocol for Vehicular Ad Hoc Networks. <i>Wireless Personal Communications</i> , 2013 , 72, 35-48	1.9	2
34	Linear order sensor network deployment for coverage analysis based on TBM theory 2013 ,		2
33	Maximization the lifetime of wireless sensor network by minimizing energy hole problem with exponential node distribution and hybrid routing 2012 ,		2
32	Performance modeling of slotted MACA-BI MAC protocol for mobile ad hoc networks 2009 ,		2
31	Dominating set based position routing in mobile ad hoc networks		2
30	Document vector embedding based extractive text summarization system for Hindi and English text. <i>Applied Intelligence</i> ,1	4.9	2
29	Intersection Area Based Geocasting Protocol (IBGP) for Vehicular Ad Hoc Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012 , 387-396	0.2	2
28	Dual Transmission Power and Ant Colony Optimization based Lifespan Maximization Protocol for Sensor Networks. <i>International Journal of Business Data Communications and Networking</i> , 2015 , 11, 1-14	0.8	2
27	Analysis of Next Hop Selection for Geocasting in VANET. <i>Communications in Computer and Information Science</i> , 2011 , 326-335	0.3	2
26	Localization in mobile wireless sensor networks using drones. <i>Transactions on Emerging Telecommunications Technologies</i> ,e4213	1.9	2
25	Energy based proficiency analysis of ad-hoc routing protocols in wireless sensor networks 2015 ,		1
24	Energy preserving sleep scheduling for cluster-based wireless sensor networks 2013 ,		1
23	Improvement of Lifetime of Wireless Sensor Network by Jointly Effort of Exponential Node Distribution and Mixed Routing 2012 ,		1

22	Exploring Dominating Features from Apis Mellifera Pre-miRNA 2008 ,		1
21	Efficient Grid Location Service Scheme for MANET. <i>IETE Journal of Research</i> , 2006 , 52, 177-185	0.9	1
20	KL-NF technique for sentiment classification. <i>Multimedia Tools and Applications</i> , 2021 , 80, 19885-19907	2.5	1
19	Performance evaluation of RSUs deployment at dense intersections. <i>International Journal of Information Technology (Singapore)</i> , 2021 , 13, 1095-1099	1.4	1
18	Performance Evaluation of Different Optimization Techniques for Coverage and Connectivity Control in Backbone Based Wireless Networks. <i>Wireless Personal Communications</i> , 2017 , 96, 4329-4345	1.9	0
17	Ant-based Integrated Traffic Control and Management in ATM Networks. <i>IETE Journal of Research</i> , 2015 , 61, 609-616	0.9	0
16	Traffic flow prediction using support vector regression. <i>International Journal of Information Technology (Singapore)</i> , 2022 , 14, 619	1.4	0
15	Bi-objective Cross-Layer Design Using Different Optimization Methods in Multi-flow Ad-Hoc Networks. <i>Communications in Computer and Information Science</i> , 2017 , 57-67	0.3	0
14	Localization in Wireless Sensor Networks Using a Mobile Anchor and Subordinate Nodes. <i>Lecture Notes in Networks and Systems</i> , 2021 , 177-188	0.5	0
13	Word Sense Disambiguation using Cooperative Game Theory and Fuzzy Hindi WordNet based on ConceptNet. <i>ACM Transactions on Asian and Low-Resource Language Information Processing</i> , 2022 , 21, 1-25	1.1	0
12	A MAC-Layer Retransmission Technique for Collided Packets in Wireless Sensor Network. <i>Wireless Personal Communications</i> , 2013 , 72, 2499-2518	1.9	
11	Power Aware MAC Protocol for Mobile Ad Hoc Networks Using Directional Antennas. <i>Wireless Personal Communications</i> , 2017 , 96, 4695-4708	1.9	
10	Fault tolerant coverage and connectivity in presence of channel randomness. <i>Scientific World Journal, The</i> , 2014 , 2014, 818135	2.2	
9	An Analytical Model for Power Control B-MAC Protocol in WSN. <i>Advances in Intelligent Systems and Computing</i> , 2012 , 551-558	0.4	
8	Improved Position-Based Routing in Vehicular Ad Hoc Networks Using P-DIR Method. <i>Communications in Computer and Information Science</i> , 2011 , 654-663	0.3	
7	Intelligent Water Drop Based Coverage-Connectivity and Lifespan Maximization Protocol for Wireless Sensor Networks. <i>Recent Patents on Engineering</i> , 2019 , 13, 261-273	0.3	
6	Enhanced Three-Dimensional DV-Hop Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 269-278	0.4	
5	Throughput Analysis of IEEE 802.11 DCF with Modified Binary Exponential Backoff in Mobile Ad Hoc Networks. <i>International Journal of Mobile Computing and Multimedia Communications</i> , 2010 , 2, 61-70 ^{0.7}		

4	Throughput Analysis of Next-Hop Forwarding Method for Non-linear Vehicular Ad Hoc Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012 , 525-534	0.2
3	Energy Efficient Location Error Resilient Connectivity in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2021 , 116, 723-737	1.9
2	Multilingual sequence to sequence convolutional machine translation. <i>Multimedia Tools and Applications</i> ,1	2.5
1	An efficient self-organized traffic maintenance scheme employing positive selection algorithm. <i>Multimedia Tools and Applications</i> ,1	2.5