

# D K Lobiyal

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

1,265  
citations

430442

18  
h-index

433756

31  
g-index

111  
all docs

111  
docs citations

111  
times ranked

1081  
citing authors



#	ARTICLE	IF	CITATIONS
19	Automatic Construction of Generic Stop Words List for Hindi Text. <i>Procedia Computer Science</i> , 2018, 132, 362-370.	1.2	20
20	A Multi-Level Strategy for Energy Efficient Data Aggregation in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2013, 72, 1513-1531.	1.8	19
21	Energy Consumption Reduction in S-MAC Protocol for Wireless Sensor Network. <i>Procedia Computer Science</i> , 2018, 143, 757-764.	1.2	19
22	Prediction Models for Energy Efficient Data Aggregation in Wireless Sensor Network. <i>Wireless Personal Communications</i> , 2015, 84, 1325-1343.	1.8	17
23	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.	1.2	17
24	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	16
25	An Enhanced DV-Hop Localization Algorithm for Wireless Sensor Networks. <i>International Journal of Wireless Networks and Broadband Technologies</i> , 2012, 2, 16-35.	1.0	13
26	Dynamic User Preference Based Network Selection for Vertical Handoff in Heterogeneous Wireless Networks. <i>Wireless Personal Communications</i> , 2018, 98, 725-742.	1.8	13
27	Impact of Interference on Coverage in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2014, 74, 683-701.	1.8	12
28	Semantic and keyword based web techniques in information retrieval. , 2016, , .		11
29	An elitist nondominated sorting genetic algorithm for QoS multicast routing in wireless networks. <i>Swarm and Evolutionary Computation</i> , 2017, 33, 85-92.	4.5	11
30	Improved 3-dimensional DV-hop localization algorithm based on information of nearby nodes. <i>Wireless Networks</i> , 2021, 27, 1801-1819.	2.0	11
31	Cross-layer optimization using two-level dual decomposition in multi-flow ad-hoc networks. <i>Telecommunication Systems</i> , 2017, 66, 639-655.	1.6	10
32	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.	1.2	9
33	Multi-Gateway-Based Energy Holes Avoidance Routing Protocol for WSN. <i>Informatics</i> , 2016, 3, 5.	2.4	9
34	Ant based Pareto optimal solution for QoS aware energy efficient multicast in wireless networks. <i>Applied Soft Computing Journal</i> , 2017, 55, 72-81.	4.1	9
35	Energy Efficient Probabilistic Clustering Technique for Data Aggregation in Wireless Sensor Network. <i>Wireless Personal Communications</i> , 2017, 96, 4099-4113.	1.8	9
36	Vertical handoff in heterogeneous wireless networks: A tutorial. , 2017, , .		9

#	ARTICLE	IF	CITATIONS
37	Location Based Contact Time Energy Efficient Routing (LCTEE) Approach for Delay Tolerant Networks. Wireless Personal Communications, 2019, 108, 2639-2662.	1.8	9
38	DSR with link prediction using Pareto distribution. , 2010, , .		7
39	Energy-aware bee colony approach to extend lifespan of wireless sensor network. Australian Journal of Multi-Disciplinary Engineering, 2017, 13, 29-46.	0.5	7
40	Sensing Coverage for Wireless Sensor Networks in Shadowed Rician Fading Environments. Wireless Personal Communications, 2020, 110, 1109-1125.	1.8	7
41	A sensitive on-chip probe-based portable nuclear magnetic resonance for detecting low parasitaemia plasmodium falciparum in human blood. Medical Devices & Sensors, 2020, 3, e10098.	2.7	7
42	Document vector embedding based extractive text summarization system for Hindi and English text. Applied Intelligence, 2022, 52, 9353-9372.	3.3	7
43	An Entropic Approach to Data Aggregation with Divergence Measure Based Clustering in Sensor Network. Communications in Computer and Information Science, 2011, , 132-142.	0.4	6
44	Traffic-Aware Density-Based Sleep Scheduling and Energy Modeling for Two Dimensional Gaussian Distributed Wireless Sensor Network. Wireless Personal Communications, 2013, 70, 1373-1396.	1.8	6
45	Probabilistic Data Aggregation in Information-based Clustered Sensor Network. Wireless Personal Communications, 2014, 77, 1287-1310.	1.8	6
46	Probabilistic Intrusion Detection in Randomly Deployed Wireless Sensor Networks. Wireless Personal Communications, 2015, 84, 1017-1037.	1.8	6
47	Energy efficient cross-layer design in MANETs. , 2017, , .		6
48	Word Sense Disambiguation of Hindi Text using Fuzzified Semantic Relations and Fuzzy Hindi WordNet. , 2019, , .		6
49	Multiobjective multicast routing in wireless ad hoc networks - An Ant Colony approach. , 2013, , .		5
50	Dynamic user preference based group vertical handoffs in heterogeneous wireless networks: a non-cooperative game approach. Wireless Networks, 2020, 26, 775-789.	2.0	5
51	Multilingual sequence to sequence convolutional machine translation. Multimedia Tools and Applications, 2021, 80, 33701-33726.	2.6	5
52	Traffic flow prediction using support vector regression. International Journal of Information Technology (Singapore), 2022, 14, 619-626.	1.8	5
53	Word Sense Disambiguation using Cooperative Game Theory and Fuzzy Hindi WordNet based on ConceptNet. ACM Transactions on Asian and Low-Resource Language Information Processing, 2022, 21, 1-25.	1.3	5
54	miRNA Prediction Using Computational Approach. Advances in Experimental Medicine and Biology, 2011, 696, 75-82.	0.8	4

#	ARTICLE	IF	CITATIONS
55	An Analytical Approach to Position-Based Routing Protocol for Vehicular Ad Hoc Networks. Communications in Computer and Information Science, 2012, , 147-156.	0.4	4
56	Linear order sensor network deployment for coverage analysis based on TBM theory. , 2013, , .		4
57	Energy based proficiency analysis of ad-hoc routing protocols in wireless sensor networks. , 2015, , .		4
58	Performance modeling and optimization of multipleâ€œobjective crossâ€œlayer design in multiâ€œflow adâ€œhoc networks. International Journal of Communication Systems, 2019, 32, e3861.	1.6	4
59	Word sense disambiguation using implicit information. Natural Language Engineering, 2020, 26, 413-432.	2.1	4
60	<scp>MWLPâ€œDP</scp>: Mobile <scp>warâ€œfighters</scp> location prediction for <scp>dark phase</scp> in Internet of Battlefield Things. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	2.6	4
61	An Efficient and Anonymous Authentication Key Agreement Protocol for Smart Transportation System. , 2021, , .		4
62	Dominating set based position routing in mobile ad hoc networks. , 0, , .		3
63	A MAC approach for dynamic power control in wireless sensor network. , 2011, , .		3
64	Maximization the lifetime of wireless sensor network by minimizing energy hole problem with exponential node distribution and hybrid routing. , 2012, , .		3
65	Levenbergâ€œMarquardt optimization method for coverage and connectivity control in backboneâ€œbased wireless networks. International Journal of Communication Systems, 2017, 30, e3296.	1.6	3
66	Node deployment strategies for a 2D wireless sensor network. , 2017, , .		3
67	Localization in mobile wireless sensor networks using drones. Transactions on Emerging Telecommunications Technologies, 0, , e4213.	2.6	3
68	Performance evaluation of RSUs deployment at dense intersections. International Journal of Information Technology (Singapore), 2021, 13, 1095-1099.	1.8	3
69	Multi-class Classification of Sentiments in Hindi Sentences Based on Intensities. , 2018, , 251-266.		3
70	An Analytical Model for Power Control T-MAC Protocol. International Journal of Computer Applications, 2010, 12, 13-18.	0.2	3
71	Dual Transmission Power and Ant Colony Optimization based Lifespan Maximization Protocol for Sensor Networks. International Journal of Business Data Communications and Networking, 2015, 11, 1-14.	1.2	3
72	Bi-objective Cross-Layer Design Using Different Optimization Methods in Multi-flow Ad-Hoc Networks. Communications in Computer and Information Science, 2017, , 57-67.	0.4	3

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73	Performance modeling of slotted MACA-BI MAC protocol for mobile ad hoc networks. , 2009, , .		2
74	Improvement of Lifetime of Wireless Sensor Network by Jointly Effort of Exponential Node Distribution and Mixed Routing. , 2012, , .		2
75	Effect of Mobility Models on the Performance of LAR Protocol for Vehicular Ad Hoc Networks. Wireless Personal Communications, 2013, 72, 35-48.	1.8	2
76	Energy preserving sleep scheduling for cluster-based wireless sensor networks. , 2013, , .		2
77	Utility-based performance analysis of cross-layer design in multi-flow ad-hoc networks. International Journal of Information Technology (Singapore), 2017, 9, 377-387.	1.8	2
78	KL-NF technique for sentiment classification. Multimedia Tools and Applications, 2021, 80, 19885-19907.	2.6	2
79	Throughput Analysis of IEEE 802.11 DCF with Modified Binary Exponential Backoff in Mobile Ad Hoc Networks. International Journal of Mobile Computing and Multimedia Communications, 2010, 2, 61-70.	0.4	2
80	Analysis of Next Hop Selection for Geocasting in VANET. Communications in Computer and Information Science, 2011, , 326-335.	0.4	2
81	Position Based Gradient Routing in Mobile Ad Hoc Networks. Lecture Notes in Computer Science, 2005, , 39-49.	1.0	1
82	Efficient Grid Location Service Scheme for MANET. IETE Journal of Research, 2006, 52, 177-185.	1.8	1
83	Exploring Dominating Features from Apis Mellifera Pre-miRNA. , 2008, , .		1
84	Scalability of Routing in MANET. , 2010, , .		1
85	Minimum energy multicast in static Wireless Ad Hoc Networks using swarm intelligence. , 2013, , .		1
86	Connectivity enhancement in randomly distributed wireless sensor network using cooperative cluster transmission. , 2013, , .		1
87	Ant-based Integrated Traffic Control and Management in ATM Networks. IETE Journal of Research, 2015, 61, 609-616.	1.8	1
88	Performance Evaluation of Different Optimization Techniques for Coverage and Connectivity Control in Backbone Based Wireless Networks. Wireless Personal Communications, 2017, 96, 4329-4345.	1.8	1
89	Power Aware MAC Protocol for Mobile Ad Hoc Networks Using Directional Antennas. Wireless Personal Communications, 2017, 96, 4695-4708.	1.8	1
90	New approach to predict propagation path loss over flat terrains. , 2017, , .		1

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91	Localization in Wireless Sensor Networks Using a Mobile Anchor and Subordinate Nodes. Lecture Notes in Networks and Systems, 2021, , 177-188.	0.5	1
92	Throughput Analysis of Next-Hop Forwarding Method for Non-linear Vehicular Ad Hoc Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 525-534.	0.2	1
93	A Prototype Model for Virtual Traffic Light Maintenance using AIS. , 2020, , .		1
94	Enhanced polyharmonic broadcasting scheme for popular videos. , 0, , .		0
95	An Adaptive Energy Efficient MAC Protocol for Wireless Ad Hoc Networks. , 2008, , .		0
96	Apis mellifera Pre-miRNA Prediction Using Decision Tree Based Classifier. , 2009, , .		0
97	An enhanced efficient broadcasting scheme for video-on-demand system in mobile ad hoc networks. , 2010, , .		0
98	An Analytical Model for Power Control B-MAC Protocol in WSN. Advances in Intelligent Systems and Computing, 2012, , 551-558.	0.5	0
99	A MAC-Layer Retransmission Technique for Collided Packets in Wireless Sensor Network. Wireless Personal Communications, 2013, 72, 2499-2518.	1.8	0
100	Performance analysis of data aggregation for overlapping clusters in heterogeneous sensor network. , 2013, , .		0
101	Fault Tolerant Coverage and Connectivity in Presence of Channel Randomness. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	0
102	A comparative study of path loss over rounded hill using Fresnel-Kirchhoff diffraction theory. , 2017, , .		0
103	Polydimethylsiloxane (PDMS) cavity for portable nuclear magnetic resonance. AIP Conference Proceedings, 2019, , .	0.3	0
104	Energy Efficient Location Error Resilient Connectivity in Wireless Sensor Networks. Wireless Personal Communications, 2021, 116, 723-737.	1.8	0
105	Intelligent Water Drop Based Coverage-Connectivity and Lifespan Maximization Protocol for Wireless Sensor Networks. Recent Patents on Engineering, 2019, 13, 261-273.	0.3	0
106	An efficient self-organized traffic maintenance scheme employing positive selection algorithm. Multimedia Tools and Applications, 0, , 1.	2.6	0