

Omprakash Kaiwartya

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.

107
papers

2,278
citations

26
h-index

43
g-index

113
ext. papers

2,958
ext. citations

3.8
avg, IF

5.66
L-index

#	Paper	IF	Citations
107	Internet of Vehicles: Motivation, Layered Architecture, Network Model, Challenges, and Future Aspects. <i>IEEE Access</i> , 2016 , 4, 5356-5373	3.5	354
106	Toward a Heterogeneous Mist, Fog, and Cloud-Based Framework for the Internet of Healthcare Things. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4049-4062	10.7	91
105	An EV Charging Management System Concerning Drivers Trip Duration and Mobility Uncertainty. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 596-607	7.3	88
104	Mobile Edge Computing for Big-Data-Enabled Electric Vehicle Charging. <i>IEEE Communications Magazine</i> , 2018 , 56, 150-156	9.1	83
103	Adaptive Energy-Aware Algorithms for Minimizing Energy Consumption and SLA Violation in Cloud Computing. <i>IEEE Access</i> , 2018 , 6, 55923-55936	3.5	76
102	Virtualization in Wireless Sensor Networks: Fault Tolerant Embedding for Internet of Things. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 571-580	10.7	69
101	A reliable energy-efficient pressure-based routing protocol for underwater wireless sensor network. <i>Wireless Networks</i> , 2018 , 24, 2061-2075	2.5	67
100	Towards green computing for Internet of things: Energy oriented path and message scheduling approach. <i>Sustainable Cities and Society</i> , 2018 , 38, 195-204	10.1	54
99	Towards video streaming in IoT Environments: Vehicular communication perspective. <i>Computer Communications</i> , 2018 , 118, 93-119	5.1	48
98	A Cost-Efficient Communication Framework for Battery-Switch-Based Electric Vehicle Charging 2017 , 55, 162-169		46
97	Performance improvement in geographic routing for Vehicular Ad Hoc Networks. <i>Sensors</i> , 2014 , 14, 2234-2271	3.71	43
96	. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 3026-3039	7.3	39
95	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
94	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
93	A Dynamic Congestion Control Scheme for safety applications in vehicular ad hoc networks. <i>Computers and Electrical Engineering</i> , 2018 , 72, 774-788	4.3	33
92	Next Forwarding Node Selection in Underwater Wireless Sensor Networks (UWSNs): Techniques and Challenges. <i>Information (Switzerland)</i> , 2017 , 8, 3	2.6	33
91	Toward Efficient, Scalable, and Coordinated On-the-Move EV Charging Management. <i>IEEE Wireless Communications</i> , 2017 , 24, 66-73	13.4	32

90	Geometry-Based Localization for GPS Outage in Vehicular Cyber Physical Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 3800-3812	6.8	32
89	Medium Access Control (MAC) for Wireless Body Area Network (WBAN): Superframe structure, multiple access technique, taxonomy, and challenges. <i>Human-centric Computing and Information Sciences</i> , 2017 , 7,	5.4	31
88	TraPy-MAC: Traffic Priority Aware Medium Access Control Protocol for Wireless Body Area Network. <i>Journal of Medical Systems</i> , 2017 , 41, 93	5.1	29
87	Physical Layer Security in Vehicular Networks with Reconfigurable Intelligent Surfaces 2020 ,		29
86	Energy-Latency Tradeoff for Dynamic Computation Offloading in Vehicular Fog Computing. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 14198-14211	6.8	29
85	Location information verification using transferable belief model for geographic routing in vehicular ad hoc networks. <i>IET Intelligent Transport Systems</i> , 2017 , 11, 53-60	2.4	28
84	Delimitated Anti Jammer Scheme for Internet of Vehicle: Machine Learning Based Security Approach. <i>IEEE Access</i> , 2019 , 7, 113311-113323	3.5	28
83	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018 , 54, 2628-2642	3.7	28
82	Towards green computing in wireless sensor networks: Controlled mobility aided balanced tree approach. <i>International Journal of Communication Systems</i> , 2018 , 31, e3463	1.7	27
81	Green computing for wireless sensor networks: Optimization and Huffman coding approach. <i>Peer-to-Peer Networking and Applications</i> , 2017 , 10, 592-609	3.1	26
80	Location error resilient geographical routing for vehicular ad-hoc networks. <i>IET Intelligent Transport Systems</i> , 2017 , 11, 450-458	2.4	26
79	A Concise Review on Internet of Things (IoT) -Problems, Challenges and Opportunities 2018 ,		25
78	Guaranteed Geocast Routing Protocol for Vehicular Adhoc Networks in Highway Traffic Environment. <i>Wireless Personal Communications</i> , 2015 , 83, 2657-2682	1.9	23
77	Fuzzy-Based Channel Selection for Location Oriented Services in Multichannel VCPS Environments. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 4642-4651	10.7	23
76	Cross-Layer Energy Optimization for IoT Environments: Technical Advances and Opportunities. <i>Energies</i> , 2017 , 10, 2073	3.1	22
75	A Decentralized Deadline-Driven Electric Vehicle Charging Recommendation. <i>IEEE Systems Journal</i> , 2019 , 13, 3410-3421	4.3	22
74	Green Computing in Underwater Wireless Sensor Networks Pressure Centric Energy Modeling. <i>IEEE Systems Journal</i> , 2020 , 14, 4735-4745	4.3	21
73	Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments. <i>IEEE Systems Journal</i> , 2020 , 14, 4663-4673	4.3	20

72	Geocasting in vehicular adhoc networks using particle swarm optimization 2014 ,		19
71	T-MQM: Testbed-Based Multi-Metric Quality Measurement of Sensor Deployment for Precision Agriculture – Case Study. <i>IEEE Sensors Journal</i> , 2016 , 1-1	4	19
70	Toward Interference Aware IoT Framework: Energy and Geo-Location-Based-Modeling. <i>IEEE Access</i> , 2019 , 7, 56617-56630	3.5	18
69	Drone assisted Flying Ad-Hoc Networks: Mobility and Service oriented modeling using Neuro-fuzzy. <i>Ad Hoc Networks</i> , 2020 , 106, 102242	4.8	18
68	Inter Vehicle Distance Based Connectivity Aware Routing in Vehicular Adhoc Networks. <i>Wireless Personal Communications</i> , 2018 , 98, 33-54	1.9	18
67	Multi-metric geographic routing for vehicular ad hoc networks. <i>Wireless Networks</i> , 2018 , 24, 2763-2779	2.5	17
66	Reconfigurable Intelligent Surface Enabled IoT Networks in Generalized Fading Channels 2020 ,		17
65	Geometrical Localization Algorithm for Three Dimensional Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2014 , 79, 249-264	1.9	16
64	Weighted link quality and forward progress coupled with modified RTS/CTS for beaconless packet forwarding protocol (B-PFP) in VANETs. <i>Telecommunication Systems</i> , 2020 , 75, 145-160	2.3	16
63	PFCBAS: Pairing Free and Provable Certificate-Based Aggregate Signature Scheme for the e-Healthcare Monitoring System. <i>IEEE Systems Journal</i> , 2020 , 14, 1704-1715	4.3	16
62	Towards green communication in wireless sensor network: GA enabled distributed zone approach. <i>Ad Hoc Networks</i> , 2019 , 93, 101903	4.8	15
61	Energy-efficient Nature-Inspired techniques in Cloud computing datacenters. <i>Telecommunication Systems</i> , 2019 , 71, 275-302	2.3	15
60	Internet of Unmanned Aerial Vehicles: QoS Provisioning in Aerial Ad-Hoc Networks. <i>Sensors</i> , 2020 , 20,	3.8	15
59	Cache agent-based geocasting in VANETs. <i>International Journal of Information and Communication Technology</i> , 2015 , 7, 562	0.1	15
58	Energy-efficient Virtual Machine Allocation Technique Using Flower Pollination Algorithm in Cloud Datacenter: A Panacea to Green Computing. <i>Journal of Bionic Engineering</i> , 2019 , 16, 354-366	2.7	14
57	EETP-MAC: energy efficient traffic prioritization for medium access control in wireless body area networks. <i>Telecommunication Systems</i> , 2020 , 75, 181-203	2.3	14
56	F3TM: Flooding Factor based Trust Management Framework for secure data transmission in MANETs. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2017 , 29, 269-280	2.5	13
55	Traffic light based time stable geocast (T-TSG) routing for urban VANETs 2013 ,		13

54	A Probabilistic Analysis of Path Duration Using Routing Protocol in VANETs. <i>International Journal of Vehicular Technology</i> , 2014 , 2014, 1-10		13
53	A COVID-19-Based Modified Epidemiological Model and Technological Approaches to Help Vulnerable Individuals Emerge from the Lockdown in the UK. <i>Sensors</i> , 2020 , 20,	3.8	13
52	Enhanced Caching for Geocast Routing in Vehicular Ad Hoc Network. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 213-220	0.4	13
51	Enabling green computing in cloud environments: Network virtualization approach toward 5G support. <i>Transactions on Emerging Telecommunications Technologies</i> , 2018 , 29, e3434	1.9	13
50	Real traffic-data based evaluation of vehicular traffic environment and state-of-the-art with future issues in location-centric data dissemination for VANETs. <i>Digital Communications and Networks</i> , 2017 , 3, 195-210	5.9	12
49	Geocast routing: Recent advances and future challenges in vehicular adhoc networks 2014 ,		12
48	Traffic Priority-Aware Adaptive Slot Allocation for Medium Access Control Protocol in Wireless Body Area Network. <i>Computers</i> , 2017 , 6, 9	1.9	12
47	A Hybrid Localization Algorithm for Wireless Sensor Networks. <i>Procedia Computer Science</i> , 2015 , 57, 1432-1439	1.1	11
46	Toward Anycasting-Driven Reservation System for Electric Vehicle Battery Switch Service. <i>IEEE Systems Journal</i> , 2019 , 13, 906-917	4.3	11
45	Optimal Placement and Capacity of Electric Vehicle Charging Stations in Urban Areas: Survey and Open Challenges 2019 ,		10
44	TRADING: Traffic Aware Data Offloading for Big Data Enabled Intelligent Transportation System. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 6869-6879	6.8	10
43	Green Computing in Software Defined Social Internet of Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 3644-3653	6.1	10
42	Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 443-457	10.7	10
41	Toward Distributed Battery Switch Based Electro-Mobility Using Publish/Subscribe System. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 10204-10217	6.8	10
40	Location Information Verification cum Security Using TBM in Geocast Routing. <i>Procedia Computer Science</i> , 2015 , 70, 219-225	1.6	9
39	W-GUN: Whale Optimization for Energy and Delay-Centric Green Underwater Networks. <i>Sensors</i> , 2020 , 20,	3.8	8
38	Intelligent Transportation Systems Enabled ICT Framework for Electric Vehicle Charging in Smart City 2018 , 311-330		8
37	Traffic and Energy Aware Optimization for Congestion Control in Next Generation Wireless Sensor Networks. <i>Journal of Sensors</i> , 2021 , 2021, 1-16	2	7

36	LQOR: Link Quality-Oriented Route Selection on Internet of Things Networks for Green Computing 2018,		7
35	Analytical Model of Deployment Methods for Application of Sensors in Non-hostile Environment. <i>Wireless Personal Communications</i> , 2017 , 97, 1517-1536	1.9	6
34	A Generalized Enhanced Quantum Fuzzy Approach for Efficient Data Clustering. <i>IEEE Access</i> , 2019 , 7, 50347-50361	3.5	6
33	Secrecy Rate Maximization in Virtual-MIMO Enabled SWIPT for 5G Centric IoT Applications. <i>IEEE Systems Journal</i> , 2021 , 15, 2810-2821	4.3	6
32	Towards Green Computing Oriented Security: A Lightweight Postquantum Signature for IoE. <i>Sensors</i> , 2021 , 21,	3.8	5
31	FSM-F: Finite State Machine Based Framework for Denial of Service and Intrusion Detection in MANET. <i>PLoS ONE</i> , 2016 , 11, e0156885	3.7	5
30	Geometry based Inter Vehicle Distance Estimation for Instantaneous GPS Failure in VANETs 2016,		5
29	Physical Layer Security in Vehicular Communication Networks in the Presence of Interference 2019,		5
28	Green Communication for Underwater Wireless Sensor Networks: Triangle Metric Based Multi-Layered Routing Protocol. <i>Sensors</i> , 2020 , 20,	3.8	4
27	Multi-Path video streaming in vehicular communication: Approaches and challenges 2017,		4
26	Green computing in IoT: Time slotted simultaneous wireless information and power transfer. <i>Computer Communications</i> , 2021 , 168, 155-169	5.1	4
25	Mobile Cloud Computing: Layered Architecture 2018,		4
24	Maximizing Fault Tolerance and Minimizing Delay in Virtual Network Embedding using NSGA-II 2015,		3
23	Secured Time Stable Geocast (S-TSG) Routing for VANETs. <i>Smart Innovation, Systems and Technologies</i> , 2016 , 161-167	0.5	3
22	Mobile Cloud Computing: Taxonomy and Challenges. <i>Journal of Computer Networks and Communications</i> , 2020 , 2020, 1-23	2.5	3
21	Quantum Learning-Enabled Green Communication for Next-Generation Wireless Systems. <i>IEEE Transactions on Green Communications and Networking</i> , 2021 , 5, 1015-1028	4	3
20	Distance, Energy and Link Quality Based Routing Protocol for Internet of Things. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 253-259	0.2	2
19	Efficient dynamic caching for geocast routing in VANETs 2015,		2

18	DECENT: Deep Learning Enabled Green Computation for Edge centric 6G Networks. <i>IEEE Transactions on Network and Service Management</i> , 2022 , 1-1	4.8	2
17	An Efficient Void Aware Framework for Enabling Internet of Underwater Things. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 1219	2.4	2
16	Energy-efficient EV Charging Station Placement for E-Mobility 2020 ,		2
15	Improved Road Segment-Based Geographical Routing Protocol for Vehicular Ad-hoc Networks. <i>Electronics (Switzerland)</i> , 2020 , 9, 1248	2.6	2
14	Grouping and Sponsoring Centric Green Coverage Model for Internet of Things. <i>Sensors</i> , 2021 , 21,	3.8	2
13	Design and Numerical Implementation of V2X Control Architecture for Autonomous Driving Vehicles. <i>Mathematics</i> , 2021 , 9, 1696	2.3	2
12	Patient Data Dissemination in Wireless Body Area Network 2016 ,		1
11	Guest Editorial Special Issue on Toward Securing Internet of Connected Vehicles (IoV) From Virtual Vehicle Hijacking. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 5866-5869	10.7	1
10	Optimizing energy consumption with global load balance in mobile ad hoc networks using NSGA-II and random waypoint mobility 2017 ,		1
9	Geographic forwarding techniques: Limitations and future challenges in IVC 2017 ,		1
8	Dynamic ad hoc transport protocol (D-ATP) for Mobile Ad hoc Networks 2014 ,		1
7	Neurocomputing for Internet of Things: Object Recognition and Detection Strategy. <i>Neurocomputing</i> , 2021 ,	5.4	1
6	Next-Generation Indoor Wireless Systems: Compatibility and Migration Case Study. <i>IEEE Access</i> , 2021 , 9, 156915-156929	3.5	1
5	Green Communication for Next-Generation Wireless Systems: Optimization Strategies, Challenges, Solutions, and Future Aspects. <i>Wireless Communications and Mobile Computing</i> , 2021 , 2021, 1-38	1.9	1
4	Energy-Efficient Routing Using Fuzzy Neural Network in Wireless Sensor Networks. <i>Wireless Communications and Mobile Computing</i> , 2021 , 2021, 1-13	1.9	0
3	ChaseMe: A Heuristic Scheme for Electric Vehicles Mobility Management on Charging Stations in a Smart City Scenario. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-11	6.1	0
2	Green Communication in Internet of Things: A Hybrid Bio-Inspired Intelligent Approach. <i>Sensors</i> , 2022 , 22, 3910	3.8	0
1	Dynamic Vehicle Routing Solution in the Framework of Nature-Inspired Algorithms. <i>Advances in Logistics, Operations, and Management Science Book Series</i> , 2016 , 36-50	0.3	

