Omprakash Kaiwartya

List of Publications by Year in Descending Order

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	DECENT: Deep Learning Enabled Green Computation for Edge centric 6G Networks. *IEEE Transactions on Network and Service Management*, **2022**, 1-1	4.8	2
106	ChaseMe: A Heuristic Scheme for Electric Vehicles Mobility Management on Charging Stations in a Smart City Scenario. *IEEE Transactions on Intelligent Transportation Systems*, **2022**, 1-11	6.1	0
105	Green Communication in Internet of Things: A Hybrid Bio-Inspired Intelligent Approach. *Sensors*, **2022**, 22, 3910	3.8	0
104	An Efficient Void Aware Framework for Enabling Internet of Underwater Things. *Journal of Marine Science and Engineering*, **2021**, 9, 1219	2.4	2
103	Neurocomputing for Internet of Things: Object Recognition and Detection Strategy. *Neurocomputing*, **2021**,	5.4	1
102	Next-Generation Indoor Wireless Systems: Compatibility and Migration Case Study. *IEEE Access*, **2021**, 9, 156915-156929	3.5	1
101	Towards Green Computing Oriented Security: A Lightweight Postquantum Signature for IoE. *Sensors*, **2021**, 21,	3.8	5
100	Green Communication for Next-Generation Wireless Systems: Optimization Strategies, Challenges, Solutions, and Future Aspects. *Wireless Communications and Mobile Computing*, **2021**, 2021, 1-38	1.9	1
99	Traffic and Energy Aware Optimization for Congestion Control in Next Generation Wireless Sensor Networks. *Journal of Sensors*, **2021**, 2021, 1-16	2	7
98	Grouping and Sponsoring Centric Green Coverage Model for Internet of Things. *Sensors*, **2021**, 21,	3.8	2
97	Design and Numerical Implementation of V2X Control Architecture for Autonomous Driving Vehicles. *Mathematics*, **2021**, 9, 1696	2.3	2
96	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 3026-3039	7.3	39
95	Green Computing in Software Defined Social Internet of Vehicles. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 3644-3653	6.1	10
94	Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. *IEEE Internet of Things Journal*, **2021**, 8, 443-457	10.7	10
93	Secrecy Rate Maximization in Virtual-MIMO Enabled SWIPT for 5G Centric IoT Applications. *IEEE Systems Journal*, **2021**, 15, 2810-2821	4.3	6
92	Green computing in IoT: Time slotted simultaneous wireless information and power transfer. *Computer Communications*, **2021**, 168, 155-169	5.1	4
91	Energy-Efficient Routing Using Fuzzy Neural Network in Wireless Sensor Networks. *Wireless Communications and Mobile Computing*, **2021**, 2021, 1-13	1.9	0

90	Quantum Learning-Enabled Green Communication for Next-Generation Wireless Systems. *IEEE Transactions on Green Communications and Networking*, **2021**, 5, 1015-1028	4	3
89	Green Communication for Underwater Wireless Sensor Networks: Triangle Metric Based Multi-Layered Routing Protocol. *Sensors*, **2020**, 20,	3.8	4
88	Toward Energy-Oriented Optimization for Green Communication in Sensor Enabled IoT Environments. *IEEE Systems Journal*, **2020**, 14, 4663-4673	4.3	20
87	Internet of Unmanned Aerial Vehicles: QoS Provisioning in Aerial Ad-Hoc Networks. *Sensors*, **2020**, 20,	3.8	15
86	Green Computing in Underwater Wireless Sensor Networks Pressure Centric Energy Modeling. *IEEE Systems Journal*, **2020**, 14, 4735-4745	4.3	21
85	Drone assisted Flying Ad-Hoc Networks: Mobility and Service oriented modeling using Neuro-fuzzy. *Ad Hoc Networks*, **2020**, 106, 102242	4.8	18
84	W-GUN: Whale Optimization for Energy and Delay-Centric Green Underwater Networks. *Sensors*, **2020**, 20,	3.8	8
83	Physical Layer Security in Vehicular Networks with Reconfigurable Intelligent Surfaces **2020**,		29
82	Energy-efficient EV Charging Station Placement for E-Mobility **2020**,		2
81	A COVID-19-Based Modified Epidemiological Model and Technological Approaches to Help Vulnerable Individuals Emerge from the Lockdown in the UK. *Sensors*, **2020**, 20,	3.8	13
80	TRADING: Traffic Aware Data Offloading for Big Data Enabled Intelligent Transportation System. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 6869-6879	6.8	10
79	Energy-Latency Tradeoff for Dynamic Computation Offloading in Vehicular Fog Computing. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 14198-14211	6.8	29
78	Mobile Cloud Computing: Taxonomy and Challenges. *Journal of Computer Networks and Communications*, **2020**, 2020, 1-23	2.5	3
77	Reconfigurable Intelligent Surface Enabled IoT Networks in Generalized Fading Channels **2020**,		17
76	Improved Road Segment-Based Geographical Routing Protocol for Vehicular Ad-hoc Networks. *Electronics (Switzerland)*, **2020**, 9, 1248	2.6	2
75	Weighted link quality and forward progress coupled with modified RTS/CTS for beaconless packet forwarding protocol (B-PFP) in VANETs. *Telecommunication Systems*, **2020**, 75, 145-160	2.3	16
74	EETP-MAC: energy efficient traffic prioritization for medium access control in wireless body area networks. *Telecommunication Systems*, **2020**, 75, 181-203	2.3	14
73	PFCBAS: Pairing Free and Provable Certificate-Based Aggregate Signature Scheme for the e-Healthcare Monitoring System. *IEEE Systems Journal*, **2020**, 14, 1704-1715	4.3	16

72	A Generalized Enhanced Quantum Fuzzy Approach for Efficient Data Clustering. *IEEE Access*, **2019**, 7, 50347-50361	3.5	6
71	Towards green communication in wireless sensor network: GA enabled distributed zone approach. *Ad Hoc Networks*, **2019**, 93, 101903	4.8	15
70	Toward Interference Aware IoT Framework: Energy and Geo-Location-Based-Modeling. *IEEE Access*, **2019**, 7, 56617-56630	3.5	18
69	Energy-efficient Virtual Machine Allocation Technique Using Flower Pollination Algorithm in Cloud Datacenter: A Panacea to Green Computing. *Journal of Bionic Engineering*, **2019**, 16, 354-366	2.7	14
68	Energy-efficient Nature-Inspired techniques in Cloud computing datacenters. *Telecommunication Systems*, **2019**, 71, 275-302	2.3	15
67	A Decentralized Deadline-Driven Electric Vehicle Charging Recommendation. *IEEE Systems Journal*, **2019**, 13, 3410-3421	4.3	22
66	Toward Anycasting-Driven Reservation System for Electric Vehicle Battery Switch Service. *IEEE Systems Journal*, **2019**, 13, 906-917	4.3	11
65	Guest Editorial Special Issue on Toward Securing Internet of Connected Vehicles (IoV) From Virtual Vehicle Hijacking. *IEEE Internet of Things Journal*, **2019**, 6, 5866-5869	10.7	1
64	Delimitated Anti Jammer Scheme for Internet of Vehicle: Machine Learning Based Security Approach. *IEEE Access*, **2019**, 7, 113311-113323	3.5	28
63	Optimal Placement and Capacity of Electric Vehicle Charging Stations in Urban Areas: Survey and Open Challenges **2019**,		10
62	Physical Layer Security in Vehicular Communication Networks in the Presence of Interference **2019**,		5
61	Toward a Heterogeneous Mist, Fog, and Cloud-Based Framework for the Internet of Healthcare Things. *IEEE Internet of Things Journal*, **2019**, 6, 4049-4062	10.7	91
60	Geometry-Based Localization for GPS Outage in Vehicular Cyber Physical Systems. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 3800-3812	6.8	32
59	Fuzzy-Based Channel Selection for Location Oriented Services in Multichannel VCPS Environments. *IEEE Internet of Things Journal*, **2018**, 5, 4642-4651	10.7	23
58	Towards green computing for Internet of things: Energy oriented path and message scheduling approach. *Sustainable Cities and Society*, **2018**, 38, 195-204	10.1	54
57	A Dynamic Congestion Control Scheme for safety applications in vehicular ad hoc networks. *Computers and Electrical Engineering*, **2018**, 72, 774-788	4.3	33
56	Mobile Edge Computing for Big-Data-Enabled Electric Vehicle Charging. *IEEE Communications Magazine*, **2018**, 56, 150-156	9.1	83
55	An EV Charging Management System Concerning Drivers Trip Duration and Mobility Uncertainty. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 596-607	7.3	88

54	A reliable energy-efficient pressure-based routing protocol for underwater wireless sensor network. *Wireless Networks*, **2018**, 24, 2061-2075	2.5	67
53	Multi-metric geographic routing for vehicular ad hoc networks. *Wireless Networks*, **2018**, 24, 2763-2779	2.5	17
52	Virtualization in Wireless Sensor Networks: Fault Tolerant Embedding for Internet of Things. *IEEE Internet of Things Journal*, **2018**, 5, 571-580	10.7	69
51	Towards video streaming in IoT Environments: Vehicular communication perspective. *Computer Communications*, **2018**, 118, 93-119	5.1	48
50	Cloud Computing in VANETs: Architecture, Taxonomy, and Challenges. *IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)*, **2018**, 35, 523-547	1.5	34
49	Towards green computing in wireless sensor networks: Controlled mobility−aided balanced tree approach. *International Journal of Communication Systems*, **2018**, 31, e3463	1.7	27
48	Inter Vehicle Distance Based Connectivity Aware Routing in Vehicular Adhoc Networks. *Wireless Personal Communications*, **2018**, 98, 33-54	1.9	18
47	Mobile Cloud Computing: Layered Architecture **2018**,		4
46	LQOR: Link Quality-Oriented Route Selection on Internet of Things Networks for Green Computing **2018**,		7
45	Intelligent Transportation Systems Enabled ICT Framework for Electric Vehicle Charging in Smart City **2018**, 311-330		8
44	Toward Distributed Battery Switch Based Electro-Mobility Using Publish/Subscribe System. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 10204-10217	6.8	10
43	Adaptive Energy-Aware Algorithms for Minimizing Energy Consumption and SLA Violation in Cloud Computing. *IEEE Access*, **2018**, 6, 55923-55936	3.5	76
42	A Concise Review on Internet of Things (IoT) -Problems, Challenges and Opportunities **2018**,		25
41	Enabling green computing in cloud environments: Network virtualization approach toward 5G support. *Transactions on Emerging Telecommunications Technologies*, **2018**, 29, e3434	1.9	13
40	. *IEEE Transactions on Aerospace and Electronic Systems*, **2018**, 54, 2628-2642	3.7	28
39	F3TM: Flooding Factor based Trust Management Framework for secure data transmission in MANETs. *Journal of King Saud University - Computer and Information Sciences*, **2017**, 29, 269-280	2.5	13
38	Location information verification using transferable belief model for geographic routing in vehicular ad hoc networks. *IET Intelligent Transport Systems*, **2017**, 11, 53-60	2.4	28
37	Real traffic-data based evaluation of vehicular traffic environment and state-of-the-art with future issues in location-centric data dissemination for VANETs. *Digital Communications and Networks*, **2017**, 3, 195-210	5.9	12

#	Publication		
18	FSM-F: Finite State Machine Based Framework for Denial of Service and Intrusion Detection in MANET. *PLoS ONE*, **2016**, 11, e0156885	3.7	5
17	T-MQM: Testbed-Based Multi-Metric Quality Measurement of Sensor Deployment for Precision Agriculture—A Case Study. *IEEE Sensors Journal*, **2016**, 1-1	4	19
16	Geometry based Inter Vehicle Distance Estimation for Instantaneous GPS Failure in VANETs **2016**,		5
15	Guaranteed Geocast Routing Protocol for Vehicular Adhoc Networks in Highway Traffic Environment. *Wireless Personal Communications*, **2015**, 83, 2657-2682	1.9	23
14	Maximizing Fault Tolerance and Minimizing Delay in Virtual Network Embedding using NSGA-II **2015**,		3
13	A Hybrid Localization Algorithm for Wireless Sensor Networks. *Procedia Computer Science*, **2015**, 57, 1432-1439	2.6	11
12	Location Information Verification cum Security Using TBM in Geocast Routing. *Procedia Computer Science*, **2015**, 70, 219-225	1.6	9
11	Multiobjective Dynamic Vehicle Routing Problem and Time Seed Based Solution Using Particle Swarm Optimization. *Journal of Sensors*, **2015**, 2015, 1-14	2	37
10	Efficient dynamic caching for geocast routing in VANETs **2015**,		2
9	Cache agent-based geocasting in VANETs. *International Journal of Information and Communication Technology*, **2015**, 7, 562	0.1	15
8	Geocasting in vehicular adhoc networks using particle swarm optimization **2014**,		19
7	Geometrical Localization Algorithm for Three Dimensional Wireless Sensor Networks. *Wireless Personal Communications*, **2014**, 79, 249-264	1.9	16
6	Geocast routing: Recent advances and future challenges in vehicular adhoc networks **2014**,		12
5	Performance improvement in geographic routing for Vehicular Ad Hoc Networks. *Sensors*, **2014**, 14, 2234-2271	3.9	43
4	A Probabilistic Analysis of Path Duration Using Routing Protocol in VANETs. *International Journal of Vehicular Technology*, **2014**, 2014, 1-10		13
3	Dynamic ad hoc transport protocol (D-ATP) for Mobile Ad hoc Networks **2014**,		1
2	Enhanced Caching for Geocast Routing in Vehicular Ad Hoc Network. *Advances in Intelligent Systems and Computing*, **2014**, 213-220	0.4	13
1	Traffic light based time stable geocast (T-TSG) routing for urban VANETs **2013**,		13