

# Pabitra M Khilar

## List of Publications by Year in Descending Order

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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.

115  
papers

1,170  
citations

16  
h-index

29  
g-index

131  
ext. papers

1,469  
ext. citations

2.2  
avg. IF

5.5  
L-index

#	Paper	IF	Citations
115	Hard and Soft Fault Detection Using Cloud Based VANET. <i>Smart Innovation, Systems and Technologies</i> , <b>2022</b> , 133-143	0.5	0
114	EPTS: Energy-saving pre-emptive task scheduling for homogeneous cloud systems. <i>Journal of Discrete Mathematical Sciences and Cryptography</i> , <b>2021</b> , 24, 2415-2441	1.7	0
113	Fault Detection for VANET Using Vehicular Cloud. <i>Smart Innovation, Systems and Technologies</i> , <b>2021</b> , 87-95	0.5	2
112	Composite fault diagnosis methodology for urban vehicular ad hoc network. <i>Vehicular Communications</i> , <b>2021</b> , 29, 100337	5.7	5
111	Fire Controlling Under Uncertainty in Urban Region Using Smart Vehicular Ad hoc Network. <i>Wireless Personal Communications</i> , <b>2021</b> , 116, 2049-2069	1.9	6
110	Distributed Traversal Based Fault Diagnosis for Wireless Sensor Network. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 121-149	0.5	
109	Environmental monitoring through Vehicular Ad Hoc Network: A productive application for smart cities. <i>International Journal of Communication Systems</i> , <b>2021</b> , 34, e4988	1.7	0
108	Driver Behavior Profiling Using Machine Learning. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 165-173	0.2	
107	Deterministic linear-hexagonal path traversal scheme for localization in wireless sensor networks. <i>Wireless Networks</i> , <b>2020</b> , 26, 5437-5453	2.5	2
106	A New Hybrid Architecture for Real-Time Detection of Emergency Vehicles. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 413-422	0.3	1
105	Optimization of Performance Parameter for Vehicular Ad-hoc NETWORK (VANET) Using Swarm Intelligence. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 83-107	0.8	13
104	Environmental Monitoring Under Uncertainty Using Smart Vehicular Ad Hoc Network. <i>Smart Innovation, Systems and Technologies</i> , <b>2020</b> , 229-238	0.5	12
103	Immune Inspired Fault Diagnosis in Wireless Sensor Network. <i>Springer Tracts in Nature-inspired Computing</i> , <b>2020</b> , 103-116	1.8	3
102	Automatic Parking Service Through VANET: A Convenience Application. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 151-159	0.4	5
101	Fault Diagnosis in Wireless Sensor Network Using Self/Non-self Discrimination Principle. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 161-168	0.4	1
100	Lightweight approach to automated fault diagnosis in WSNs. <i>IET Networks</i> , <b>2020</b> , 9, 110-119	2.8	1
99	Range-free intersecting chord-based geometric localization scheme for wireless sensor networks. <i>International Journal of Communication Systems</i> , <b>2020</b> , 33, e4217	1.7	0

98	Fault diagnosis in wireless sensor network using negative selection algorithm and support vector machine. <i>Computational Intelligence</i> , <b>2020</b> , 36, 1374-1393	2.5	5
97	Multifault diagnosis in WSN using a hybrid metaheuristic trained neural network. <i>Digital Communications and Networks</i> , <b>2020</b> , 6, 86-100	5.9	15
96	Local Traffic Aware Unicast Routing Scheme for Connected Car System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 21, 2360-2375	6.1	9
95	Underlying and Persistence Fault Diagnosis in Wireless Sensor Networks Using Majority Neighbors Co-ordination Approach. <i>Wireless Personal Communications</i> , <b>2020</b> , 111, 763-798	1.9	13
94	A complete diagnosis of faulty sensor modules in a wireless sensor network. <i>Ad Hoc Networks</i> , <b>2019</b> , 93, 101924	4.8	12
93	Fault diagnosis in wireless sensor network using clonal selection principle and probabilistic neural network approach. <i>International Journal of Communication Systems</i> , <b>2019</b> , 32, e4138	1.7	16
92	Investigation of RBF Kernelized ANFIS for Fault Diagnosis in Wireless Sensor Networks. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 253-264	0.4	2
91	An Automated Toll Gate System Using VANET <b>2019</b> ,		11
90	Omnidirectional Radio Propagation Antenna Using Organized Grouping of Monopole Antennas. <i>The National Academy of Sciences, India</i> , <b>2019</b> , 42, 109-113	0.6	
89	Neural network based automated detection of link failures in wireless sensor networks and extension to a study on the detection of disjoint nodes. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2019</b> , 10, 593-610	3.7	11
88	Energy Saving Task Consolidation Technique in Cloud Centers with Resource Utilization Threshold. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 655-666	0.4	5
87	Adaptive MAC Protocol in Wireless Sensor Networks for Disaster Detection. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 95-103	0.4	2
86	Heterogeneous fault diagnosis for wireless sensor networks. <i>Ad Hoc Networks</i> , <b>2018</b> , 69, 15-37	4.8	61
85	Fault diagnosis and its prediction in wireless sensor networks using regressional learning to achieve fault tolerance. <i>International Journal of Communication Systems</i> , <b>2018</b> , 31, e3769	1.7	10
84	Adaptive routing protocol for urban vehicular networks to support sellers and buyers on wheels. <i>Computer Networks</i> , <b>2018</b> , 142, 168-178	5.4	12
83	Predicting Link Failure in Vehicular Communication System Using Link Existence Diagram (LED). <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 501-506	0.4	1
82	Short-Range Frequency-Modulated Continuous Wave (FMCW) Radar Using Universal Software-Defined Radio Peripheral (USRP). <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 559-565 <sup>0.4</sup>		
81	Code refactoring using slice-based cohesion metrics and aspect-oriented programming. <i>International Journal of Business Information Systems</i> , <b>2018</b> , 27, 45	0.6	3

80	A path selection based routing protocol for urban vehicular ad hoc network (UVAN) environment. <i>Wireless Networks</i> , <b>2017</b> , 23, 311-322	2.5	17
79	Mobile beacon based range free localization method for wireless sensor networks. <i>Wireless Networks</i> , <b>2017</b> , 23, 1285-1300	2.5	17
78	An effective graph-theoretic approach towards simultaneous detection of fault(s) and cut(s) in wireless sensor networks. <i>International Journal of Communication Systems</i> , <b>2017</b> , 30, e3273	1.7	19
77	Dynamic slicing of distributed Aspect-Oriented Programs: A context-sensitive approach. <i>Computer Standards and Interfaces</i> , <b>2017</b> , 52, 71-84	3.5	5
76	Multi-hop consensus time synchronization algorithm for sparse wireless sensor network: A distributed constraint-based dynamic programming approach. <i>Ad Hoc Networks</i> , <b>2017</b> , 61, 124-138	4.8	11
75	Composite Fault Diagnosis in Wireless Sensor Networks Using Neural Networks. <i>Wireless Personal Communications</i> , <b>2017</b> , 95, 2507-2548	1.9	37
74	Geometric Constraint-Based Range-Free Localization Scheme for Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 5350-5366	4	31
73	A Novel Trust Based Access Control Model for Cloud Environment. <i>Lecture Notes in Electrical Engineering</i> , <b>2017</b> , 285-295	0.2	8
72	A Range Free Geometric Technique for Localization of Wireless Sensor Network (WSN) Based on Controlled Communication Range. <i>Wireless Personal Communications</i> , <b>2017</b> , 94, 1359-1385	1.9	13
71	Soft fault diagnosis in wireless sensor networks using PSO based classification <b>2017</b> ,		9
70	Artificial immune system based fault diagnosis in large wireless sensor network topology <b>2017</b> ,		7
69	Self soft fault detection based routing protocol for vehicular ad hoc network in city environment. <i>Wireless Networks</i> , <b>2016</b> , 22, 285-305	2.5	8
68	An analytical geometric range free localization scheme based on mobile beacon points in wireless sensor network. <i>Wireless Networks</i> , <b>2016</b> , 22, 2537-2550	2.5	21
67	VehiHealth: An Emergency Routing Protocol for Vehicular Ad Hoc Network to Support Healthcare System. <i>Journal of Medical Systems</i> , <b>2016</b> , 40, 65	5.1	11
66	RVCloud: a routing protocol for vehicular ad hoc network in city environment using cloud computing. <i>Wireless Networks</i> , <b>2016</b> , 22, 1329-1341	2.5	11
65	Minimizing Energy Consumption by Task Consolidation in Cloud Centers with Optimized Resource Utilization. <i>International Journal of Electrical and Computer Engineering</i> , <b>2016</b> , 6, 3283	1.4	3
64	A fuzzy MLP approach for fault diagnosis in wireless sensor networks <b>2016</b> ,		10
63	Forest fire monitoring and detection of faulty nodes using wireless sensor network <b>2016</b> ,		15

62	Distributed Byzantine fault detection technique in wireless sensor networks based on hypothesis testing. <i>Computers and Electrical Engineering</i> , <b>2015</b> , 48, 270-285	4.3	38
61	An evolutionary based topological optimization strategy for consensus based clock synchronization protocols in wireless sensor network. <i>Swarm and Evolutionary Computation</i> , <b>2015</b> , 22, 66-85	9.8	9
60	A Road Selection Based Routing Protocol for Vehicular Ad Hoc Network. <i>Wireless Personal Communications</i> , <b>2015</b> , 83, 2463-2483	1.9	13
59	Distributed self fault diagnosis algorithm for large scale wireless sensor networks using modified three sigma edit test. <i>Ad Hoc Networks</i> , <b>2015</b> , 25, 170-184	4.8	78
58	Intermittent fault diagnosis in dynamic topology MANETs. <i>International Journal of Signal and Imaging Systems Engineering</i> , <b>2015</b> , 8, 345	3.5	2
57	Selective data transmission in SNR based clustered-underwater Wireless sensor network (CUWSN) <b>2015</b> ,		3
56	SIR: a secure and intelligent routing protocol for vehicular ad hoc network. <i>IET Networks</i> , <b>2015</b> , 4, 185-194	24.8	25
55	Optimal consensus-based clock synchronisation algorithm in wireless sensor network by selective averaging. <i>IET Wireless Sensor Systems</i> , <b>2015</b> , 5, 166-174	1.6	7
54	FTMXT: Fault-Tolerant Immediate Mode Heuristics in Computational Grid <b>2015</b> , 103-113		3
53	Vehicular communication: a survey. <i>IET Networks</i> , <b>2014</b> , 3, 204-217	2.8	129
52	RRTS: A Task Scheduling Algorithm to Minimize Makespan in Grid Environment. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 279-292	0.4	1
51	Diagnosis of Wireless Sensor Networks in Presence of Permanent and Intermittent Faults. <i>Wireless Personal Communications</i> , <b>2014</b> , 78, 1571-1591	1.9	29
50	Energy Efficient Distributed Fault Identification Algorithm in Wireless Sensor Networks. <i>Journal of Computer Networks and Communications</i> , <b>2014</b> , 2014, 1-16	2.5	5
49	IJS: An Intelligent Junction Selection Based Routing Protocol for VANET to Support ITS Services. <i>International Scholarly Research Notices</i> , <b>2014</b> , 2014, 653131	0	3
48	Optimal topological balancing strategy for performance optimisation of consensus-based clock synchronisation protocols in wireless sensor networks: a genetic algorithm-based approach. <i>IET Wireless Sensor Systems</i> , <b>2014</b> , 4, 213-222	1.6	5
47	Distributed Diagnosis of Permanent and Intermittent Faults in Wireless Sensor Networks. <i>Smart Innovation, Systems and Technologies</i> , <b>2014</b> , 133-141	0.5	3
46	FTM2: Fault Tolerant Batch Mode Heuristics in Computational Grid. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 98-104	0.9	7
45	A Network Survivability Approach to Resist Access Point Failure in IEEE 802.11 WLAN. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 293-303	0.4	2

44	Component-Aspect Separation-Based Slicing of Aspect-Oriented Programs. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 931-937	0.4	
43	Mobility aware distributed diagnosis of mobile ad hoc sensor networks. <i>Networking Science</i> , <b>2013</b> , 2, 52-65		2
42	A Semi-Interquartile Min-Min Max-Min (SIM2) Approach for Grid Task Scheduling. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 415-421	0.4	1
41	Online Distributed Fault Diagnosis in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , <b>2013</b> , 71, 1931-1960	1.9	19
40	Energy-efficient distributed approach for clustering-based fault detection and diagnosis in image sensor networks. <i>IET Wireless Sensor Systems</i> , <b>2013</b> , 3, 26-36	1.6	13
39	A secure routing protocol for Vehicular Ad Hoc Network to provide ITS services <b>2013</b> ,		9
38	Detection and diagnosis of node failure in wireless sensor networks: A multiobjective optimization approach. <i>Swarm and Evolutionary Computation</i> , <b>2013</b> , 13, 74-84	9.8	14
37	Fault Diagnosis in Wireless Sensor Networks: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , <b>2013</b> , 15, 2000-2026	37.1	118
36	VFT: A virtualization and fault tolerance approach for cloud computing <b>2013</b> ,		23
35	System-level fault diagnosis in fixed topology mobile ad hoc networks. <i>International Journal of Communication Networks and Distributed Systems</i> , <b>2013</b> , 10, 216	0.4	4
34	Mobility adaptive unequal cluster-based routing protocol in wireless sensor networks. <i>International Journal of Sensor Networks</i> , <b>2013</b> , 14, 65	0.8	3
33	A Density-Based Clustering Paradigm to Detect Faults in Wireless Sensor Network. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 865-871	0.4	2
32	FFGPSR: Fault-Tolerant Face-shift Greedy Perimeter Stateless Routing for Ad hoc Network. <i>Procedia Engineering</i> , <b>2012</b> , 38, 3779-3788		
31	Transient Fault Tolerant Wireless Sensor Networks. <i>Procedia Technology</i> , <b>2012</b> , 4, 97-101		4
30	Distributed soft fault detection algorithm in wireless sensor networks using statistical test <b>2012</b> ,		14
29	A two-step QoS priority for scheduling in Grid <b>2012</b> ,		3
28	Energy efficient soft fault detection algorithm in wireless sensor networks <b>2012</b> ,		3
27	SST: A secure fault-tolerant Smart Transportation system for Vehicular Ad hoc Network <b>2012</b> ,		4

26	CSRP: A Centralized Secure Routing Protocol for mobile ad hoc network <b>2012</b> ,		6
25	A Three-Stage Approach for grid task scheduling <b>2012</b> ,		3
24	Detection of Node Failure in Wireless Image Sensor Networks <b>2012</b> , 2012, 1-8		9
23	Distributed Fault Tolerant Estimation in Wireless Sensor Network Using Robust Diffusion Adaptation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 259-260	0.9	1
22	Mobility and energy aware distributed clustering protocol for ad hoc sensor networks <b>2011</b> ,		1
21	SDDP: Scalable Distributed Diagnosis Protocol for Wireless Sensor Networks. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 69-80	0.3	2
20	Fault Diagnosis in MANET. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 119-128	0.3	1
19	Online fault detection and recovery in body sensor networks <b>2011</b> ,		1
18	FPGA based implementation of parallel ECC processor <b>2011</b> ,		2
17	Fault tolerant greedy perimeter stateless routing in wireless network <b>2011</b> ,		3
16	Scalable Distributed Diagnosis Algorithm for Wireless Sensor Networks. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 400-405	0.3	3
15	An Efficient Fault Detection Algorithm in Wireless Sensor Network. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 279-288	0.3	6
14	Energy Efficient and Fault Tolerant GPSR in Ad Hoc Wireless Network. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 683-692	0.3	
13	Authenticated Routing for Ad-Hoc On-Demand Distance Vector Routing Protocol. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 364-373	0.3	1
12	Performance analysis of distributed intermittent fault diagnosis in wireless sensor networks using clustering <b>2010</b> ,		2
11	Learning with distributed data in wireless sensor network <b>2010</b> ,		3
10	Hierarchically adaptive distributed fault diagnosis in mobile ad hoc networks using clustering <b>2010</b> ,		1
9	Distributed Intermittent Fault Diagnosis in Wireless Sensor Networks Using Clustering <b>2010</b> ,		3

8	An Improved Hierarchically Adaptive Distributed Fault Diagnosis in Mobile Ad Hoc Networks Using Clustering <b>2010</b> ,		1
7	A redundant neighborhood approach to tolerate Access Point failure in IEEE 802.11 WLAN <b>2009</b> ,		5
6	A NOVEL HIERARCHICAL CLUSTERING APPROACH FOR DIAGNOSING LARGE SCALE WIRELESS ADHOC SYSTEMS. <i>International Journal of Computers and Applications</i> , <b>2009</b> , 31,	0.8	3
5	Design and Evaluation of a Failure Detection Algorithm for Large Scale Ad Hoc Networks Using Cluster Based Approach <b>2008</b> ,		7
4	Intermittent Fault Diagnosis in Wireless Sensor Networks <b>2007</b> ,		9
3	Distributed Diagnosis in Dynamic Fault Environments for Arbitrary Network Topologies		1
2	Intermittent Fault Diagnosis in Wireless Sensor Networks		1
1	An effective data routing for dynamic area coverage using multidrone network. <i>Transactions on Emerging Telecommunications Technologies</i> ,	1.9	1