Pabitra M Khilar

List of Publications by Year
in descending order

119 papers	1,727 citations	361296 20 h-index	345118 36 g-index
131 all docs	131 docs citations	131 times ranked	1067 citing authors

#	Article	IF	Citations
1	Fault Diagnosis in Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2013, 15, 2000-2026.	24.8	177
2	Vehicular communication: a survey. IET Networks, 2014, 3, 204-217.	1.1	175
3	Distributed self fault diagnosis algorithm for large scale wireless sensor networks using modified three sigma edit test. Ad Hoc Networks, 2015, 25, 170-184.	3.4	105
4	Heterogeneous fault diagnosis for wireless sensor networks. Ad Hoc Networks, 2018, 69, 15-37.	3.4	85
5	Distributed Byzantine fault detection technique in wireless sensor networks based on hypothesis testing. Computers and Electrical Engineering, 2015, 48, 270-285.	3.0	51
6	Composite Fault Diagnosis in Wireless Sensor Networks Using Neural Networks. Wireless Personal Communications, 2017, 95, 2507-2548.	1.8	51
7	Geometric Constraint-Based Range-Free Localization Scheme for Wireless Sensor Networks. IEEE Sensors Journal, 2017, 17, 5350-5366.	2.4	41
8	Diagnosis of ÂWireless Sensor Networks in Presence of Permanent and Intermittent Faults. Wireless Personal Communications, 2014, 78, 1571-1591.	1.8	35
9	VFT: A virtualization and fault tolerance approach for cloud computing. , 2013, , .		32
10	Multifault diagnosis in WSN using a hybrid metaheuristic trained neural network. Digital Communications and Networks, 2020, 6, 86-100.	2.7	32
11	SIR: a secure and intelligent routing protocol for vehicular <i>ad hoc</i> network. IET Networks, 2015, 4, 185-194.	1.1	30
12	Underlying and Persistence Fault Diagnosis in Wireless Sensor Networks Using Majority Neighbors Co-ordination Approach. Wireless Personal Communications, 2020, 111, 763-798.	1.8	27
13	Mobile beacon based range free localization method for wireless sensor networks. Wireless Networks, 2017, 23, 1285-1300.	2.0	26
14	A complete diagnosis of faulty sensor modules in a wireless sensor network. Ad Hoc Networks, 2019, 93, 101924.	3.4	26
15	Online Distributed Fault Diagnosis in Wireless Sensor Networks. Wireless Personal Communications, 2013, 71, 1931-1960.	1.8	25
16	An analytical geometric range free localization scheme based on mobile beacon points in wireless sensor network. Wireless Networks, 2016, 22, 2537-2550.	2.0	25
17	Neural network based automated detection of link failures in wireless sensor networks and extension to a study on the detection of disjoint nodes. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 593-610.	3.3	24
18	Fault diagnosis in wireless sensor network using clonal selection principle and probabilistic neural network approach. International Journal of Communication Systems, 2019, 32, e4138.	1.6	23

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19	An effective graph‐theoretic approach towards simultaneous detection of fault(s) and cut(s) in wireless sensor networks. International Journal of Communication Systems, 2017, 30, e3273.	1.6	22
20	A path selection based routing protocol for urban vehicular ad hoc network (UVAN) environment. Wireless Networks, 2017, 23, 311-322.	2.0	21
21	Optimization of Performance Parameter for Vehicular Ad-hoc NETwork (VANET) Using Swarm Intelligence. Studies in Computational Intelligence, 2020, , 83-107.	0.7	21
22	Intermittent Fault Diagnosis in Wireless Sensor Networks. , 2007, , .		20
23	Forest fire monitoring and detection of faulty nodes using wireless sensor network. , 2016, , .		20
24	Fault diagnosis and its prediction in wireless sensor networks using regressional learning to achieve fault tolerance. International Journal of Communication Systems, 2018, 31, e3769.	1.6	20
25	Adaptive routing protocol for urban vehicular networks to support sellers and buyers on wheels. Computer Networks, 2018, 142, 168-178.	3.2	19
26	A Range Free Geometric Technique for Localization of Wireless Sensor Network (WSN) Based on Controlled Communication Range. Wireless Personal Communications, 2017, 94, 1359-1385.	1.8	18
27	Distributed soft fault detection algorithm in wireless sensor networks using statistical test. , 2012, , .		17
28	Detection and diagnosis of node failure in wireless sensor networks: A multiobjective optimization approach. Swarm and Evolutionary Computation, 2013, 13, 74-84.	4.5	17
29	A Road Selection Based Routing Protocol for Vehicular Ad Hoc Network. Wireless Personal Communications, 2015, 83, 2463-2483.	1.8	17
30	Fault diagnosis in wireless sensor network using negative selection algorithm and support vector machine. Computational Intelligence, 2020, 36, 1374-1393.	2.1	17
31	VehiHealth: An Emergency Routing Protocol for Vehicular Ad Hoc Network to Support Healthcare System. Journal of Medical Systems, 2016, 40, 65.	2.2	16
32	An Automated Toll Gate System Using VANET. , 2019, , .		16
33	Environmental Monitoring Under Uncertainty Using Smart Vehicular Ad Hoc Network. Smart Innovation, Systems and Technologies, 2020, , 229-238.	0.5	16
34	A Novel Trust Based Access Control Model for Cloud Environment. Lecture Notes in Electrical Engineering, 2017, , 285-295.	0.3	15
35	Soft fault diagnosis in wireless sensor networks using PSO based classification. , 2017, , .		15
36	Local Traffic Aware Unicast Routing Scheme for Connected Car System. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2360-2375.	4.7	15

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37	Detection of Node Failure in Wireless Image Sensor Networks. , 2012, 2012, 1-8.		15
38	Energy‐efficient distributed approach for clustering‐based fault detection and diagnosis in image sensor networks. IET Wireless Sensor Systems, 2013, 3, 26-36.	1.3	14
39	RVCloud: a routing protocol for vehicular ad hoc network in city environment using cloud computing. Wireless Networks, 2016, 22, 1329-1341.	2.0	14
40	Self soft fault detection based routing protocol for vehicular ad hoc network in city environment. Wireless Networks, 2016, 22, 285-305.	2.0	14
41	Multi-hop consensus time synchronization algorithm for sparse wireless sensor network: A distributed constraint-based dynamic programming approach. Ad Hoc Networks, 2017, 61, 124-138.	3.4	14
42	Composite fault diagnosis methodology for urban vehicular ad hoc network. Vehicular Communications, 2021, 29, 100337.	2.7	14
43	A fuzzy MLP approach for fault diagnosis in wireless sensor networks. , 2016, , .		13
44	Optimal consensus‐based clock synchronisation algorithm in wireless sensor network by selective averaging. IET Wireless Sensor Systems, 2015, 5, 166-174.	1.3	12
45	Artificial immune system based fault diagnosis in large wireless sensor network topology. , 2017, , .		11
46	Fire Controlling Under Uncertainty in Urban Region Using Smart Vehicular Ad hoc Network. Wireless Personal Communications, 2021, 116, 2049-2069.	1.8	11
47	Environmental monitoring through Vehicular Ad Hoc Network: A productive application for smart cities. International Journal of Communication Systems, 2021, 34, e4988.	1.6	11
48	Design and Evaluation of a Failure Detection Algorithm for Large Scale Ad Hoc Networks Using Cluster Based Approach. , 2008, , .		10
49	A secure routing protocol for Vehicular Ad Hoc Network to provide ITS services. , 2013, , .		10
50	A redundant neighborhood approach to tolerate Access Point failure in IEEE 802.11 WLAN. , 2009, , .		9
51	An evolutionary based topological optimization strategy for consensus based clock synchronization protocols in wireless sensor network. Swarm and Evolutionary Computation, 2015, 22, 66-85.	4.5	9
52	Automatic Parking Service Through VANET: A Convenience Application. Advances in Intelligent Systems and Computing, 2020, , 151-159.	0.5	9
53	Automated Fault Diagnosis in Wireless Sensor Networks: A Comprehensive Survey. Wireless Personal Communications, 2022, 127, 3211-3243.	1.8	9
54	Dynamic slicing of distributed Aspect-Oriented Programs: A context-sensitive approach. Computer Standards and Interfaces, 2017, 52, 71-84.	3.8	8

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55	Transient Fault Tolerant Wireless Sensor Networks. Procedia Technology, 2012, 4, 97-101.	1.1	7
56	Energy Efficient Distributed Fault Identification Algorithm in Wireless Sensor Networks. Journal of Computer Networks and Communications, 2014, 2014, 1-16.	1.2	7
57	FTM2: Fault Tolerant Batch Mode Heuristics in Computational Grid. Lecture Notes in Computer Science, 2014, , 98-104.	1.0	7
58	Minimizing Energy Consumption by Task Consolidation in Cloud Centers with Optimized Resource Utilization. International Journal of Electrical and Computer Engineering, 2016, 6, 3283.	0.5	7
59	CSRP: A Centralized Secure Routing Protocol for mobile ad hoc network. , 2012, , .		6
60	Optimal topological balancing strategy for performance optimisation of consensusâ€based clock synchronisation protocols in wireless sensor networks: a genetic algorithmâ€based approach. IET Wireless Sensor Systems, 2014, 4, 213-222.	1.3	6
61	Distributed Diagnosis in Dynamic Fault Environments for Arbitrary Network Topologies. , 0, , .		5
62	SST: A secure fault-tolerant Smart Transportation system for Vehicular Ad hoc Network. , 2012, , .		5
63	System-level fault diagnosis in fixed topology mobile ad hoc networks. International Journal of Communication Networks and Distributed Systems, 2013, 10, 216.	0.3	5
64	Immune Inspired Fault Diagnosis in Wireless Sensor Network. Springer Tracts in Nature-inspired Computing, 2020, , 103-116.	1.2	5
65	Lightweight approach to automated fault diagnosis in WSNs. IET Networks, 2020, 9, 110-119.	1.1	5
66	An effective data routing for dynamic area coverage using multidrone network. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	2.6	5
67	Learning with distributed data in wireless sensor network. , 2010, , .		4
68	Routing misbehavior detection and reaction in MANETs. , 2010, , .		4
69	A two-step QoS priority for scheduling in Grid. , 2012, , .		4
70	Distributed Diagnosis of Permanent and Intermittent Faults in Wireless Sensor Networks. Smart Innovation, Systems and Technologies, 2014, , 133-141.	0.5	4
71	A NOVEL HIERARCHICAL CLUSTERING APPROACH FOR DIAGNOSING LARGEâ€“ SCALE WIRELESS ADHOC SYSTEMS. International Journal of Computers and Applications, 2009, 31, .	0.8	4
72	Hard and Soft Fault Detection Using Cloud Based VANET. Smart Innovation, Systems and Technologies, 2022, , 133-143.	0.5	4

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73	A Distributed Diagnosis Approach to Fault Tolerant Multi-rate Real-Time Embedded Systems. , 2007, , .		3
74	Performance analysis of distributed intermittent fault diagnosis in wireless sensor networks using clustering. , 2010, , .		3
75	Distributed Intermittent Fault Diagnosis in Wireless Sensor Networks Using Clustering. , 2010, , .		3
76	Mobility and energy aware distributed clustering protocol for ad hoc sensor networks. , 2011, , .		3
77	SDDP: Scalable Distributed Diagnosis Protocol for Wireless Sensor Networks. Communications in Computer and Information Science, 2011, , 69-80.	0.4	3
78	Fault tolerant greedy perimeter stateless routing in wireless network. , 2011, , .		3
79	A Three-Stage Approach for grid task scheduling. , 2012, , .		3
80	Energy efficient soft fault detection algorithm in wireless sensor networks. , 2012, , .		3
81	Mobility adaptive unequal cluster-based routing protocol in wireless sensor networks. International Journal of Sensor Networks, 2013, 14, 65.	0.2	3
82	IJS: An Intelligent Junction Selection Based Routing Protocol for VANET to Support ITS Services. International Scholarly Research Notices, 2014, 2014, 1-14.	0.9	3
83	Selective data transmission in SNR based clustered-underwater Wireless sensor network (CUWSN). , 2015, , .		3
84	Code refactoring using slice-based cohesion metrics and aspect-oriented programming. International Journal of Business Information Systems, 2018, 27, 45.	0.2	3
85	Range†free intersecting chord†based geometric localization scheme for wireless sensor networks. International Journal of Communication Systems, 2020, 33, e4217.	1.6	3
86	Deterministic linear-hexagonal path traversal scheme for localization in wireless sensor networks. Wireless Networks, 2020, 26, 5437-5453.	2.0	3
87	Scalable Distributed Diagnosis Algorithm for Wireless Sensor Networks. Communications in Computer and Information Science, 2011, , 400-405.	0.4	3
88	A Density-Based Clustering Paradigm to Detect Faults in Wireless Sensor Network. Advances in Intelligent Systems and Computing, 2013, , 865-871.	0.5	3
89	Fault Detection for VANET Using Vehicular Cloud. Smart Innovation, Systems and Technologies, 2021, , 87-95.	0.5	3
90	Hierarchically adaptive distributed fault diagnosis in mobile ad hoc networks using clustering. , 2010, , .		2

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91	Online fault detection and recovery in body sensor networks. , 2011, , .		2
92	FPGA based implementation of parallel ECC processor. , 2011, , .		2
93	Mobility aware distributed diagnosis of mobile ad hoc sensor networks. Networking Science, 2013, 2, 52-65.	1.2	2
94	Intermittent fault diagnosis in dynamic topology MANETs. International Journal of Signal and Imaging Systems Engineering, 2015, 8, 345.	0.6	2
95	Adaptive MAC Protocol in Wireless Sensor Networks for Disaster Detection. Advances in Intelligent Systems and Computing, 2018, , 95-103.	0.5	2
96	Fault Diagnosis in Wireless Sensor Network Using Self/Non-self Discrimination Principle. Advances in Intelligent Systems and Computing, 2020, , 161-168.	0.5	2
97	Intermittent Fault Diagnosis in Wireless Sensor Networks. , 2007, , .		2
98	TIME-CONSTRAINED FAULT TOLERANT X-BY-WIRE SYSTEMS. International Journal of Computers and Applications, 2009, 31, .	0.8	2
99	A novel fault diagnosis algorithm for K-connected distributed clusters. , 2010, , .		1
100	An Improved Hierarchically Adaptive Distributed Fault Diagnosis in Mobile Ad Hoc Networks Using Clustering. , 2010, , .		1
101	An Energy Efficient Search in Dense Wireless Sensor Network. , 2010, , .		1
102	On distributed self fault diagnosis for wireless multimedia sensor networks. , 2011, , .		1
103	Fault Diagnosis in MANET. Communications in Computer and Information Science, 2011, , 119-128.	0.4	1
104	RRTS: A Task Scheduling Algorithm to Minimize Makespan in Grid Environment. Advances in Intelligent Systems and Computing, 2014, , 279-292.	0.5	1
105	Omnidirectional Radio Propagation Antenna Using Organized Grouping of Monopole Antennas. The National Academy of Sciences, India, 2019, 42, 109-113.	0.8	1
106	Distributed Fault Tolerant Estimation in Wireless Sensor Network Using Robust Diffusion Adaptation. Lecture Notes in Computer Science, 2012, , 259-260.	1.0	1
107	EPTS: Energy-saving pre-emptive task scheduling for homogeneous cloud systems. Journal of Discrete Mathematical Sciences and Cryptography, 2021, 24, 2415-2441.	0.5	1
108	Design and Evaluation of a Distributed Diagnosis Algorithm in Dynamic Fault Environments For Not-Completely Connected Network. , 2006, , .		0

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109	Distributed Diagnosis in Dynamic Fault Environment For Not-Completely Connected Network. , 2006, , .		0
110	Notice of Violation of IEEE Publication Principles: A Dynamic Distributed Diagnosis Algorithm for an Arbitrary Network Topology with Unreliable Nodes and Links. , 2007, , .		0
111	A M-level parallel task scheduling. , 2012, , .		0
112	<title>Heartbeat-based error diagnosis framework for distributed embedded systems</title>. Proceedings of SPIE, 2012, , .	0.8	0
113	FFGPSR: Fault-Tolerant Face-shift Greedy Perimeter Stateless Routing for Ad hoc Network. Procedia Engineering, 2012, 38, 3779-3788.	1.2	0
114	Re-jagged AR4JA LDPC coded outdoor optical wireless communication system. , 2016, , .		0
115	A Secured Patients Monitoring System Using Sensor Nodes in Health Care Institutions. , 2018, , .		0
116	Energy Efficient and Fault Tolerant GPSR in Ad Hoc Wireless Network. Communications in Computer and Information Science, 2011, , 683-692.	0.4	0
117	Component-Aspect Separation-Based Slicing of Aspect-Oriented Programs. Advances in Intelligent Systems and Computing, 2014, , 931-937.	0.5	0
118	Short-Range Frequency-Modulated Continuous Wave (FMCW) Radar Using Universal Software-Defined Radio Peripheral (USRP). Advances in Intelligent Systems and Computing, 2018, , 559-565.	0.5	0
119	A Distributed Diagnosis Approach to Fault Tolerant Multi-rate Real-Time Embedded Systems. , 2007, , .		0