## From MANET To IETF ROLL Standardization: A Paradig

IEEE Communications Surveys and Tutorials 13, 688-707 DOI: 10.1109/surv.2011.082710.00092

**Citation Report** 

#	Article	IF	CITATIONS
1	Performance analysis of the RPL Routing Protocol. , 2011, , .		116
2	Green Cellular Networks: A Survey, Some Research Issues and Challenges. IEEE Communications Surveys and Tutorials, 2011, 13, 524-540.	39.4	930
3	Localized algorithm for border nodes detection in WSNs. , 2012, , .		1
4	Reliable RSS-based routing protocol for Industrial Wireless Sensor Networks. , 2012, , .		11
5	Energy efficiency in future wireless networks: Cognitive radio standardization requirements. , 2012, , .		11
6	CBFR: Bloom filter routing with gradual forgetting for tree-structured wireless sensor networks with mobile nodes. , 2012, , .		17
7	Services collaboration in Wireless Sensor and Actuator Networks: Orchestration versus Choreography. , 2012, , .		17
8	An algorithm for central point estimation in WSNs. , 2012, , .		0
9	Energy Monitoring System Using Sensor Networks in Residential Houses. , 2012, , .		19
10	Performance assessment and tuning rules for low-power and lossy stacks. , 2012, , .		1
11	SMaRTCaR: An integrated smartphone-based platform to support traffic management applications. , 2012, , .		35
12	Standardized power-efficient & internet-enabled communication stack for capillary M2M networks. , 2012, , .		20
13	OpenWSN: a standardsâ€based lowâ€power wireless development environment. Transactions on Emerging Telecommunications Technologies, 2012, 23, 480-493.	3.9	228
14	Power Sharing and Control in Distributed Generation With Wireless Sensor Networks. IEEE Transactions on Smart Grid, 2012, 3, 618-634.	9.0	34
15	Proactive routing based distributed energy consumption. , 2013, , .		3
16	Next-Generation Wireless Technologies. Computer Communications and Networks, 2013, , .	0.8	21
17	Wireless sensor networks for biomedical applications. , 2013, , .		12
18	On the interplay between RPL and address autoconfiguration protocols in LLNs. , 2013, , .		4

ATION RED

#	Article	IF	CITATIONS
19	Reliable Routing Using Heterogeneity in Wireless Sensor Networks. , 2013, , .		0
20	The role of communication systems in smart grids: Architectures, technical solutions and research challenges. Computer Communications, 2013, 36, 1665-1697.	5.1	277
21	Deployment of wireless sensor networks for biomedical applications. , 2013, , .		1
22	Dynamic Adjustment of Transmission Power of Mobile Ad-Hoc Wireless Sensor Networks. , 2013, , .		2
23	Efficient distributed monitoring in 6LoWPAN networks. , 2013, , .		5
24	Performance and applicability of geographic-based routing in smart grid's neighbor area networks. , 2013, , .		5
25	The role of the RPL routing protocol for smart grid communications. , 2013, 51, 75-83.		125
26	Smart Grid Communications Networks: Wireless Technologies, Protocols, Issues, and Standards. , 2013, , 115-146.		13
27	Smart Grid Communications: Overview of Research Challenges, Solutions, and Standardization Activities. IEEE Communications Surveys and Tutorials, 2013, 15, 21-38.	39.4	464
28	CREST: An epoch-oriented routing control plane for Low-Power and Lossy Networks. , 2013, , .		2
29	On the impact of network topology on wireless sensornetworks performances. , 2013, , .		1
30	Named Data Networking: A natural design for data collection in Wireless Sensor Networks. , 2013, , .		61
31	Controlled and self-organized routing for large-scale wireless sensor networks. ACM Transactions on Sensor Networks, 2013, 10, 1-27.	3.6	22
32	Extending Lifetime of Biomedical Wireless Sensor Networks using Energy-Aware Routing and Relay Nodes. International Journal of E-Health and Medical Communications, 2014, 5, 39-51.	1.6	2
33	A Hybrid Optimized Weighted Minimum Spanning Tree for the Shortest Intrapath Selection in Wireless Sensor Network. Mathematical Problems in Engineering, 2014, 2014, 1-8.	1.1	25
34	An Empirical Evaluation of Lightweight Random Walk Based Routing Protocol in Duty Cycle Aware Wireless Sensor Networks. Scientific World Journal, The, 2014, 2014, 1-9.	2.1	0
36	Non-invasive rapid and efficient firmware update for wireless sensor networks. , 2014, , .		4
37	On the Impact of Network Topology on Wireless Sensor Networks Performances: Illustration with Geographic Routing. , 2014, , .		6

#	Article	IF	CITATIONS
38	Congestion Aware Geographic Routing Protocol for Wireless Ad Hoc and Sensor Networks. Wireless Personal Communications, 2014, 78, 1905-1916.	2.7	5
39	Generating, communicating, accessing and analyzing data in a context-aware perspective. , 2014, , .		1
40	M2M Service Platforms: Survey, Issues, and Enabling Technologies. IEEE Communications Surveys and Tutorials, 2014, 16, 61-76.	39.4	266
41	Energy-aware routing for biomedical wireless sensor networks. Journal of Network and Computer Applications, 2014, 40, 270-278.	9.1	43
42	Performance and applicability of candidate routing protocols for smart grid's wireless mesh neighbor area networks. , 2014, , .		12
43	Wireless Communications Networks for the Smart Grid. SpringerBriefs in Computer Science, 2014, , .	0.2	22
44	An energy-balanced distributed clustering protocol for wireless sensor networks. , 2014, , .		1
45	Congestion Control Protocols in Wireless Sensor Networks: A Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 1369-1390.	39.4	142
46	An Industrial Perspective on Wireless Sensor Networks — A Survey of Requirements, Protocols, and Challenges. IEEE Communications Surveys and Tutorials, 2014, 16, 1391-1412.	39.4	294
47	A routing enhanced localisation algorithm for wireless sensor networks. International Journal of Ad Hoc and Ubiquitous Computing, 2014, 15, 6.	0.5	1
48	A Novel Metric for Opportunistic Routing in Heterogenous Duty-Cycled Wireless Sensor Networks. , 2015, , .		7
50	Multi-channel network coding in tree-based wireless sensor networks. , 2015, , .		4
52	Autonomic schemes for threat mitigation in Internet of Things. Journal of Network and Computer Applications, 2015, 49, 112-127.	9.1	182
53	Using multiparent routing in RPL to increase the stability and the lifetime of the network. Ad Hoc Networks, 2015, 29, 45-62.	5.5	133
54	Perfect link routing for energy efficient forwarding in geographic routing. Ad Hoc Networks, 2015, 30, 46-62.	5.5	5
55	Joint routing, channel allocation and power control for realâ€life wireless sensor networks. Transactions on Emerging Telecommunications Technologies, 2015, 26, 945-956.	3.9	10
56	Connecting in-body nano communication with body area networks: Challenges and opportunities of the Internet of Nano Things. Nano Communication Networks, 2015, 6, 29-38.	2.9	91
57	Cluster-parent based RPL for Low-Power and Lossy Networks in building environment. , 2015, , .		5

#	Article	IF	CITATIONS
58	User Interactive and Assistive Fleet Management and Eco-Driving System. , 2015, , .		3
59	Robustness of the routing protocol for low-power and lossy networks (RPL) in smart grid's neighbor-area networks. , 2015, , .		5
60	Design and Evaluation of an RPL-based Multi-Sink Routing Protocol for Low-Power and Lossy Networks. , 2015, , .		8
61	mRPL: Boosting mobility in the Internet of Things. Ad Hoc Networks, 2015, 26, 17-35.	5.5	116
62	Link Capacity-Energy Aware WDC for Network Lifetime Maximization. IEEE Transactions on Mobile Computing, 2015, 14, 1615-1628.	5.8	5
63	M2M Communications in 3GPP LTE/LTE-A Networks: Architectures, Service Requirements, Challenges, and Applications. IEEE Communications Surveys and Tutorials, 2015, 17, 525-549.	39.4	293
64	Intelligent Cross-Layer Protocol with traffic-differentiation-based QoS for wireless sensor networks. , 2016, , .		5
65	A Distributed Algorithm for Maximizing Linear Tree Density for One to Many Wireless Communication. , 2016, , .		2
66	Large scale over-the-air testing of Group Centric Networking. , 2016, , .		1
67	A Non Destructive Interference based receiver-initiated MAC protocol for wireless sensor networks. , 2016, , .		2
68	Low-power and lossy networks under mobility: A survey. Computer Networks, 2016, 107, 339-352.	5.1	55
69	A Cloud-Based Network Architecture for Big Data Services. , 2016, , .		2
70	Identified improvements of wireless sensor networks in smart grid: issues, requirements and challenges. International Journal of Smart Grid and Green Communications, 2016, 1, 3.	0.2	4
71	Communication Rules Learning Strategy in Big Data Network Based on SVN Neural Network. , 2016, , .		1
72	Recharging versus replacing sensor nodes using mobile robots for network maintenance. Telecommunication Systems, 2016, 63, 625-642.	2.5	20
73	Transport Control Strategies in Named Data Networking: A Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 2052-2083.	39.4	54
74	Geographical multiâ€layered energyâ€efficient clustering scheme for ad hoc distributed wireless sensor networks. IET Wireless Sensor Systems, 2016, 6, 1-9.	1.7	13
75	A Survey on Multipath Routing Protocols for QoS Assurances in Real-Time Wireless Multimedia Sensor Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 1424-1456.	39.4	181

	CITATION R	CITATION REPORT	
#	Article	IF	CITATIONS
76	mRPL+: A mobility management framework in RPL/6LoWPAN. Computer Communications, 2017, 104, 34-54.	5.1	50
77	MuTrans: A multi-channel network coding approach to mobile data collection. , 2017, , .		0
78	Energy and Congestion-Aware Routing Metric for Smart Grid AMI Networks in Smart City. IEEE Access, 2017, 5, 13799-13810.	4.2	107
79	An energy-efficient and cluster-parent based RPL with power-level refinement for low-power and lossy networks. Computer Communications, 2017, 104, 17-33.	5.1	33
80	A comprehensive study of RPL and P2P-RPL routing protocols: Implementation, challenges and opportunities. Peer-to-Peer Networking and Applications, 2017, 10, 1232-1256.	3.9	56
81	The design and implementation of a multicast address moving target defensive system for internet-of-things applications. , 2017, , .		4
82	Joint routing, MAC and physical layer protocol for wireless sensor networks. , 2017, , .		4
83	Adopting Sector-Based Replacement (SBR) and Utilizing Air-R to Achieve R-WSN Sustainability. Information (Switzerland), 2017, 8, 70.	2.9	2
84	Unicast QoS Routing Algorithms for SDN: A Comprehensive Survey and Performance Evaluation. IEEE Communications Surveys and Tutorials, 2018, 20, 388-415.	39.4	121
85	Cross-layer cooperative multichannel medium access for internet of things. Peer-to-Peer Networking and Applications, 2018, 11, 504-517.	3.9	4
86	Power Management and Advanced Metering Infrastructure Using Wireless Network in Remote Areas. , 2018, , .		0
87	A hybrid mode to enhance the downward route performance in routing protocol for low power and lossy networks. International Journal of Distributed Sensor Networks, 2018, 14, 155014771877253.	2.2	15
88	Group centric networking: A new approach for wireless multi-hop networking. Ad Hoc Networks, 2018, 79, 160-172.	5.5	2
89	Rendezvous Cost-Aware Opportunistic Routing in Heterogeneous Duty-Cycled Wireless Sensor Networks. IEEE Access, 2019, 7, 121825-121840.	4.2	11
90	Development of a wireless intravenous drip rate monitoring device. International Journal of Sensor Networks, 2019, 29, 159.	0.4	1
91	RMA-RP: A Reliable Mobility-Aware Routing Protocol for Industrial IoT Networks. , 2019, , .		6
92	SecTrust-RPL: A secure trust-aware RPL routing protocol for Internet of Things. Future Generation Computer Systems, 2019, 93, 860-876.	7.5	197
93	Monarch-EWA: Monarch-Earthworm-Based Secure Routing Protocol in IoT. Computer Journal, 2020, 63, 817-831.	2.4	19

#	Article	IF	CITATIONS
94	Energy Consumption Evaluation of a Routing Protocol for Low-Power and Lossy Networks in Mesh Scenarios for Precision Agriculture. Sensors, 2020, 20, 3814.	3.8	12
95	An Information-Centric Semantic Data Collection Tree for Wireless Sensor Networks. Sensors, 2020, 20, 6168.	3.8	2
96	Heuristic mobile data gathering for wireless sensor networks via trajectory control. International Journal of Distributed Sensor Networks, 2020, 16, 155014772090705.	2.2	5
97	Age-Optimal Mobile Elements Scheduling for Recharging and Data Collection in Green IoT. IEEE Access, 2020, 8, 81765-81775.	4.2	8
98	Interoperability and Data Storage in Internet of Multimedia Things: Investigating Current Trends, Research Challenges and Future Directions. IEEE Access, 2020, 8, 124382-124401.	4.2	23
99	VANET-Based Volunteer Computing (VBVC): A Computational Paradigm for Future Autonomous Vehicles. IEEE Access, 2020, 8, 71763-71774.	4.2	7
100	Hierarchical routing protocols for wireless sensor network: a compressive survey. Wireless Networks, 2020, 26, 3291-3314.	3.0	71
101	Atom search sunflower optimization for trustâ€based routing in internet of things. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2845.	1.9	10
102	Greedy Forwarding Routing Schemes using an Improved K-Means Approach for Wireless Sensor Networks. Wireless Personal Communications, 2021, 119, 1619.	2.7	3
103	A novel decentralized security architecture against sybil attack in RPL-based IoT networks: a focus on smart home use case. Journal of Supercomputing, 2021, 77, 13703-13738.	3.6	13
104	Cyber forensic framework for big data analytics using Sunflower Jaya optimizationâ€based Deep stacked autoencoder. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2892.	1.9	3
105	Routing on Constrained Devices. Textbooks in Telecommunication Engineering, 2022, , 171-192.	0.2	0
106	Multilevel authentication protocol for enabling secure communication in Internet of Things. Concurrency Computation Practice and Experience, 0, , e6578.	2.2	1
107	Machine-to-Machine Communications. Computer Communications and Networks, 2013, , 221-241.	0.8	8
109	Symphony. ACM SIGBED Review, 2020, 16, 26-31.	1.8	9
110	An Energy Efficient Anchor-Free Localization Algorithm for No-Identity Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 595246.	2.2	5
111	MAC Protocol for Quality-Aware Real-Time Voice Delivery in Cognitive Radio-Enabled WSNs. International Journal of Distributed Sensor Networks, 2015, 2015, 1-10.	2.2	2
113	The Impact of Packet Fragmentation and Reassembly in Resource Constrained Wireless Networks. Journal of Computing and Information Technology, 2013, 21, 97.	0.3	2

#	Article	IF	CITATIONS
114	Design of Joint Cooperative Routing, MAC and Physical Layer with QoS-aware Traffic-based Scheduling for Wireless Sensor Networks. International Journal of Networked and Distributed Computing, 2017, 5, 164.	1.9	2
115	An Efficient Clusterhead Election Algorithm for Mobile Ad-Hoc Network. International Journal of Computer Applications, 2014, 99, 19-22.	0.2	2
116	Sensor Network Protocols for Greener Smart Environments. , 2013, , 205-228.		0
117	A Wireless Greenhouse Monitoring System Based on Solar Energy. TELKOMNIKA Indonesian Journal of Electrical Engineering, 2013, 11, .	0.1	8
119	Wireless Routing Protocols for NANs. SpringerBriefs in Computer Science, 2014, , 51-69.	0.2	0
120	A Wireless Sensor Network Testbed for the Evaluation of Energy-Aware Routing Schemes. International Journal of Distributed Sensor Networks, 2014, 10, 795268.	2.2	1
121	Researching and Hardware Implementation of RPL Routing Protocol Based on the Contiki Operating System. International Journal of Future Computer and Communication, 2014, 3, 411-414.	1.3	2
122	Context-Awareness in Autonomic Communication and in Accessing Web Information: Issues and Challenges. , 2016, , 107-118.		0
123	An Intelligent Cross-Layer QoS-Aware Protocol with Traffic-Differentiation-Based for Energy Efficient Communication in WSNs. International Journal of Networked and Distributed Computing, 2017, 5, 80.	1.9	2
124	Extending Lifetime of Biomedical Wireless Sensor Networks using Energy-Aware Routing and Relay Nodes. , 2018, , 714-726.		0
125	Energy Aware Nature inspired Routing for Wireless Sensor Networks. , 2021, , .		0
126	GA-based energy efficient modeling of a wireless sensor network. Advances in Computers, 2022, , .	1.6	0
127	A Review on Wireless Sensor Networks: Routing. Wireless Personal Communications, 2022, 125, 897-937.	2.7	10
128	Energy-Efficient Routing in Wireless Sensor Networks. Acta Cybernetica, 2021, 25, 421-434.	0.6	0
129	CVFP: Energy and trust aware data routing protocol based on Competitive Verse Flower Pollination algorithm in IoT. Computers and Security, 2022, , 103035.	6.0	0
130	Developing multiâ€path routing protocol in MANET using hybrid SM SBO based on novel multiâ€objective function. International Journal of Communication Systems, 2023, 36, .	2.5	3
131	Integration of E-health and Internet of Things. , 2023, , 1-22.		0
132	Exponential-sunflower optimization and deep convolution neural network for secure routing and prediction in internet of things. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 4201-4220.	4.9	0

#	Article	IF	CITATIONS
133	New scheme of WSN routing to ensure data communication between sensor nodes based on energy warning. AEJ - Alexandria Engineering Journal, 2023, 80, 397-407.	6.4	2
134	HS–WOA–MANET: a hybrid meta-heuristic approach-based multi-objective constraints for energy efficient routing protocol in mobile ad hoc networks. Journal of Reliable Intelligent Environments, 0,	5.2	0