

Josep Paradells

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.

64
papers

1,628
citations

15
h-index

40
g-index

74
ext. papers

2,049
ext. citations

2.7
avg, IF

4.96
L-index

#	Paper	IF	Citations
64	On the Energy Performance of Iridium Satellite IoT Technology. <i>Sensors</i> , 2021 , 21,	3.8	2
63	A Sigfox Energy Consumption Model. <i>Sensors</i> , 2019 , 19,	3.8	46
62	IEEE 802.11-Enabled Wake-Up Radio: Use Cases and Applications. <i>Sensors</i> , 2019 , 20,	3.8	4
61	Design and Implementation of a Wake-Up Radio Receiver for Fast 250 kb/s Bit Rate. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 1537-1540	5.9	4
60	CoAP congestion control for the internet of things 2016 , 54, 154-160		78
59	Has Time Come to Switch From Duty-Cycled MAC Protocols to Wake-Up Radio for Wireless Sensor Networks?. <i>IEEE/ACM Transactions on Networking</i> , 2016 , 24, 674-687	3.8	98
58	On-Demand Sensor Node Wake-Up Using Solar Panels and Visible Light Communication. <i>Sensors</i> , 2016 , 16,	3.8	8
57	Experimental evaluation of congestion control for CoAP communications without end-to-end reliability. <i>Ad Hoc Networks</i> , 2016 , 52, 183-194	4.8	6
56	CoCoA+: An advanced congestion control mechanism for CoAP. <i>Ad Hoc Networks</i> , 2015 , 33, 126-139	4.8	45
55	Urban Automation Networks: Current and Emerging Solutions for Sensed Data Collection and Actuation in Smart Cities. <i>Sensors</i> , 2015 , 15, 22874-98	3.8	29
54	Infrastructureless smart cities. Use cases and performance 2014 ,		4
53	A holistic approach to ZigBee performance enhancement for home automation networks. <i>Sensors</i> , 2014 , 14, 14932-70	3.8	9
52	IEEE 802.11-enabled wake-up radio system: design and performance evaluation. <i>Electronics Letters</i> , 2014 , 50, 1484-1486	1.1	15
51	A novel wake-up communication system using solar panel and Visible Light Communication 2014 ,		7
50	Smart Cities as an Application of Internet of Things: Experiences and Lessons Learnt in Barcelona 2013 ,		40
49	Performance evaluation and comparative analysis of SubCarrier Modulation Wake-up Radio systems for energy-efficient wireless sensor networks. <i>Sensors</i> , 2013 , 14, 22-51	3.8	64
48	Design, development, and performance evaluation of a low-cost, low-power wake-up radio system for wireless sensor networks. <i>ACM Transactions on Sensor Networks</i> , 2013 , 10, 1-24	2.9	25

47	Wake-up radio as an energy-efficient alternative to conventional wireless sensor networks MAC protocols 2013 ,		8
46	Congestion control in reliable CoAP communication 2013 ,		11
45	Implementation of Context-Aware Network Architecture for Smart Objects Based on Functional Composition. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2013 , 207-216	0.2	
44	Control mechanisms of presence updates: A tradeoff between traffic optimization and information consistency. <i>Computer Communications</i> , 2012 , 35, 2093-2105	5.1	2
43	Time-Knocking: A novel addressing mechanism for wake-up receivers 2012 ,		6
42	Optimization of Inter-Domain Presence Traffic Based on Privacy Rule Sharing: Performance and Impact on the IMS. <i>Journal of Network and Systems Management</i> , 2012 , 20, 372-400	2.1	1
41	Overview and Evaluation of Bluetooth Low Energy: An Emerging Low-Power Wireless Technology. <i>Sensors</i> , 2012 , 12, 11734-11753	3.8	502
40	AN APPROACH TO RADIO CHANNEL BANDWIDTH IMPROVEMENT IN HIERARCHICAL MOBILE IP NETWORKS (HMIPv6-BI). <i>IEEE Latin America Transactions</i> , 2011 , 9, 603-609	0.7	
39	Modeling the Maximum Throughput of Bluetooth Low Energy in an Error-Prone Link. <i>IEEE Communications Letters</i> , 2011 , 15, 1187-1189	3.8	44
38	Deploying Large-Scale IEEE802.11 Networks Using IP Paging with Link-Specific Capabilities: A Standard Compliant Approach and its Performance Analysis. <i>Wireless Personal Communications</i> , 2011 , 60, 363-383	1.9	
37	Can Future Internet be based on constrained networks design principles?. <i>Computer Networks</i> , 2011 , 55, 893-909	5.4	4
36	SIP/SIMPLE Resource List Server: Optimization or Burden for Presence Systems? 2011 ,		2
35	Optimizing the Delivery Chain in Heterogenous Networks. <i>Lecture Notes in Computer Science</i> , 2011 , 207-219		
34	STRATEGIES FOR REDUCING INTER-DOMAIN PRESENCE TRAFFIC: AN ANALYTICAL STUDY. <i>International Journal of Cooperative Information Systems</i> , 2010 , 19, 205-238	0.6	4
33	Impact of LQI-Based Routing Metrics on the Performance of a One-to-One Routing Protocol for IEEE 802.15.4 Multihop Networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2010 , 2010,	3.2	37
32	Wireless home automation networks: A survey of architectures and technologies 2010 , 48, 92-101		283
31	Contention- and Interference-Aware Flow-Based Routing in Wireless Mesh Networks: Design and Evaluation of a Novel Routing Metric. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2010 , 2010,	3.2	7
30	Proposal of a clean slate network architecture for ubiquitous services provisioning 2009 ,		5

29	Improving security applications using indoor location systems on wireless sensor networks 2009 ,		2
28	Client-driven load balancing through association control in IEEE 802.11 WLANs. <i>European Transactions on Telecommunications</i> , 2009 , 20, 494-507		13
27	Frequency assignments in IEEE 802.11 WLANs with efficient spectrum sharing. <i>Wireless Communications and Mobile Computing</i> , 2009 , 9, 1125-1140	1.9	11
26	Implementation and Evaluation of the Enhanced Header Compression (IPHC) for 6LoWPAN. <i>Lecture Notes in Computer Science</i> , 2009 , 168-177	0.9	9
25	Cooperative load balancing in IEEE 802.11 networks with cell breathing 2008 ,		14
24	Presence Functionality Approach to Achieve Fixed Mobile Converged Services. <i>Information Networking, 2008 ICOIN 2008 International Conference on</i> , 2008 ,		1
23	Web Optimization in Real UMTS Networks with Channel Switching Mechanisms. <i>IEEE Vehicular Technology Conference</i> , 2008 ,	0.1	1
22	Evaluation and optimisation of session setup delay for streaming services over 3G networks with quality of service support. <i>Wireless Communications and Mobile Computing</i> , 2008 , 8, 195-212	1.9	
21	Web browsing optimization over 2.5G and 3G: end-to-end mechanisms vs. usage of performance enhancing proxies. <i>Wireless Communications and Mobile Computing</i> , 2008 , 8, 213-230	1.9	8
20	IntServ6: an approach to support QoS over IPv6 wired and wireless networks. <i>European Transactions on Telecommunications</i> , 2008 , 19, 635-652		2
19	Effect of adjacent-channel interference in IEEE 802.11 WLANs 2007 ,		34
18	IEEE Wireless LAN Capacity in Multicell Environments with Rate Adaptation 2007 ,		1
17	Tetra as a Building block to WMNs 2007 , 235-298		1
16	Achievable Bandwidth Estimation for Stations in Multi-Rate IEEE 802.11 WLAN Cells 2007 ,		14
15	Inter-Access point communications for distributed resource management in 802.11 networks 2006 ,		4
14	Impact of Handover Between UMTS and GPRS on TCP/IP: An Empirical Approach 2006 ,		2
13	A Study of Local Connectivity Maintenance Strategies of MANET Reactive Routing Protocol Implementations 2006 ,		2
12	Supporting QoS over IPv6 wireless networks with IntServ6 2006 ,		3

11	Wireless technology applied to GIS. <i>Computers and Geosciences</i> , 2004 , 30, 671-682	4.5	11
10	Hybrid location systems: delivering non-standardized assistance data in GSM/GPRS networks. <i>European Transactions on Telecommunications</i> , 2004 , 15, 111-116		1
9	Labelling mechanism to support distance-based dynamic location updating in cellular networks. <i>Electronics Letters</i> , 2003 , 39, 1471	1.1	3
8	Design and Modelling of Internode: A Mobile Provider Provisioned VPN. <i>Mobile Networks and Applications</i> , 2003 , 8, 51-60	2.9	5
7	Power control at the combiner output to maximize the uplink capacity on a cellular spread spectrum system. <i>IEEE Communications Letters</i> , 1998 , 2, 273-275	3.8	8
6	M/D/C queue with priority: application to trunked mobile radio systems. <i>Electronics Letters</i> , 1996 , 32, 1644	1.1	6
5	Adapting AODV for IEEE 802.15.4 mesh sensor networks: theoretical discussion and performance evaluation in a real environment		36
4	IntServ6: an approach to support QoS over IPv6 networks		4
3	Multilayer analysis of the influence of mobility models on TCP flows in AODV ad-hoc networks		4
2	Improving performance of a real ad-hoc network by tuning OLSR parameters		21
1	Delivery of non-standardized assistance data in E-OTD/GNSS hybrid location systems		5