Josep Paradells

List of Publications by Citations

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	Overview and Evaluation of Bluetooth Low Energy: An Emerging Low-Power Wireless Technology. *Sensors*, **2012**, 12, 11734-11753	3.8	502
63	Wireless home automation networks: A survey of architectures and technologies **2010**, 48, 92-101		283
62	Has Time Come to Switch From Duty-Cycled MAC Protocols to Wake-Up Radio for Wireless Sensor Networks?. *IEEE/ACM Transactions on Networking*, **2016**, 24, 674-687	3.8	98
61	CoAP congestion control for the internet of things **2016**, 54, 154-160		78
60	Performance evaluation and comparative analysis of SubCarrier Modulation Wake-up Radio systems for energy-efficient wireless sensor networks. *Sensors*, **2013**, 14, 22-51	3.8	64
59	A Sigfox Energy Consumption Model. *Sensors*, **2019**, 19,	3.8	46
58	CoCoA+: An advanced congestion control mechanism for CoAP. *Ad Hoc Networks*, **2015**, 33, 126-139	4.8	45
57	Modeling the Maximum Throughput of Bluetooth Low Energy in an Error-Prone Link. *IEEE Communications Letters*, **2011**, 15, 1187-1189	3.8	44
56	Smart Cities as an Application of Internet of Things: Experiences and Lessons Learnt in Barcelona **2013**,		40
55	Impact of LQI-Based Routing Metrics on the Performance of a One-to-One Routing Protocol for IEEE 802.15.4 Multihop Networks. *Eurasip Journal on Wireless Communications and Networking*, **2010**, 2010,	3.2	37
54	Adapting AODV for IEEE 802.15.4 mesh sensor networks: theoretical discussion and performance evaluation in a real environment		36
53	Effect of adjacent-channel interference in IEEE 802.11 WLANs **2007**,		34
52	Urban Automation Networks: Current and Emerging Solutions for Sensed Data Collection and Actuation in Smart Cities. *Sensors*, **2015**, 15, 22874-98	3.8	29
51	Design, development, and performance evaluation of a low-cost, low-power wake-up radio system for wireless sensor networks. *ACM Transactions on Sensor Networks*, **2013**, 10, 1-24	2.9	25
50	Improving performance of a real ad-hoc network by tuning OLSR parameters		21
49	IEEE 802.11-enabled wake-up radio system: design and performance evaluation. *Electronics Letters*, **2014**, 50, 1484-1486	1.1	15
48	Cooperative load balancing in IEEE 802.11 networks with cell breathing **2008**,		14

47	Achievable Bandwidth Estimation for Stations in Multi-Rate IEEE 802.11 WLAN Cells **2007**,		14
46	Client-driven load balancing through association control in IEEE 802.11 WLANs. *European Transactions on Telecommunications*, **2009**, 20, 494-507		13
45	Congestion control in reliable CoAP communication **2013**,		11
44	Frequency assignments in IEEE 802.11 WLANs with efficient spectrum sharing. *Wireless Communications and Mobile Computing*, **2009**, 9, 1125-1140	1.9	11
43	Wireless technology applied to GIS. *Computers and Geosciences*, **2004**, 30, 671-682	4.5	11
42	A holistic approach to ZigBee performance enhancement for home automation networks. *Sensors*, **2014**, 14, 14932-70	3.8	9
41	Implementation and Evaluation of the Enhanced Header Compression (IPHC) for 6LoWPAN. *Lecture Notes in Computer Science*, **2009**, 168-177	0.9	9
40	Wake-up radio as an energy-efficient alternative to conventional wireless sensor networks MAC protocols **2013**,		8
39	Web browsing optimization over 2.5G and 3G: end-to-end mechanisms vs. usage of performance enhancing proxies. *Wireless Communications and Mobile Computing*, **2008**, 8, 213-230	1.9	8
38	Power control at the combiner output to maximize the uplink capacity on a cellular spread spectrum system. *IEEE Communications Letters*, **1998**, 2, 273-275	3.8	8
37	On-Demand Sensor Node Wake-Up Using Solar Panels and Visible Light Communication. *Sensors*, **2016**, 16,	3.8	8
36	A novel wake-up communication system using solar panel and Visible Light Communication **2014**,		7
35	Contention- and Interference-Aware Flow-Based Routing in Wireless Mesh Networks: Design and Evaluation of a Novel Routing Metric. *Eurasip Journal on Wireless Communications and Networking*, **2010**, 2010,	3.2	7
34	Time-Knocking: A novel addressing mechanism for wake-up receivers **2012**,		6
33	M/D/C queue with priority: application to trunked mobile radio systems. *Electronics Letters*, **1996**, 32, 1644	1.1	6
32	Experimental evaluation of congestion control for CoAP communications without end-to-end reliability. *Ad Hoc Networks*, **2016**, 52, 183-194	4.8	6
31	Proposal of a clean slate network architecture for ubiquitous services provisioning **2009**,		5
30	Design and Modelling of Internode: A Mobile Provider Provisioned VPN. *Mobile Networks and Applications*, **2003**, 8, 51-60	2.9	5

29	Delivery of non-standardized assistance data in E-OTD/GNSS hybrid location systems		5
28	IEEE 802.11-Enabled Wake-Up Radio: Use Cases and Applications. *Sensors*, **2019**, 20,	3.8	4
27	Design and Implementation of a Wake-Up Radio Receiver for Fast 250 kb/s Bit Rate. *IEEE Wireless Communications Letters*, **2019**, 8, 1537-1540	5.9	4
26	Infrastructureless smart cities. Use cases and performance **2014**,		4
25	STRATEGIES FOR REDUCING INTER-DOMAIN PRESENCE TRAFFIC: AN ANALYTICAL STUDY. *International Journal of Cooperative Information Systems*, **2010**, 19, 205-238	0.6	4
24	Can Future Internet be based on constrained networks design principles?. *Computer Networks*, **2011**, 55, 893-909	5.4	4
23	Inter-Access point communications for distributed resource management in 802.11 networks **2006**,		4
22	IntServ6: an approach to support QoS over IPv6 networks		4
21	Multilayer analysis of the influence of mobility models on TCP flows in AODV ad-hoc networks		4
20	Supporting QoS over IPv6 wireless networks with IntServ6 **2006**,		3
19	Labelling mechanism to support distance-based dynamic location updating in cellular networks. *Electronics Letters*, **2003**, 39, 1471	1.1	3
18	Control mechanisms of presence updates: A tradeoff between traffic optimization and information consistency. *Computer Communications*, **2012**, 35, 2093-2105	5.1	2
17	Improving security applications using indoor location systems on wireless sensor networks **2009**,		2
16	SIP/SIMPLE Resource List Server: Optimization or Burden for Presence Systems? **2011**,		2
15	IntServ6: an approach to support QoS over IPv6 wired and wireless networks. *European Transactions on Telecommunications*, **2008**, 19, 635-652		2
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	On the Energy Performance of Iridium Satellite IoT Technology. *Sensors*, **2021**, 21,	3.8	2

List of Publications

11	Optimization of Inter-Domain Presence Traffic Based on Privacy Rule Sharing: Performance and Impact on the IMS. *Journal of Network and Systems Management*, **2012**, 20, 372-400	2.1	1
10	Presence Functionality Approach to Achieve Fixed Mobile Converged Services. *Information Networking, 2008 ICOIN 2008 International Conference on*, **2008**,		1
9	Web Optimization in Real UMTS Networks with Channel Switching Mechanisms. *IEEE Vehicular Technology Conference*, **2008**,	0.1	1
8	IEEE Wireless LAN Capacity in Multicell Environments with Rate Adaptation **2007**,		1
7	Tetra as a Building block to WMNs **2007**, 235-298		1
6	Hybrid location systems: delivering non-standardized assistance data in GSM/GPRS networks. *European Transactions on Telecommunications*, **2004**, 15, 111-116		1
5	AN APPROACH TO RADIO CHANNEL BANDWIDTH IMPROVEMENT IN HIERARCHICAL MOBILE IP NETWORKS (HMIPv6-BI). *IEEE Latin America Transactions*, **2011**, 9, 603-609	0.7	
4	Deploying Large-Scale IEEE802.11 Networks Using IP Paging with Link-Specific Capabilities: A Standard Compliant Approach and its Performance Analysis. *Wireless Personal Communications*, **2011**, 60, 363-383	1.9	
3	Evaluation and optimisation of session setup delay for streaming services over 3G networks with quality of service support. *Wireless Communications and Mobile Computing*, **2008**, 8, 195-212	1.9	
2	Optimizing the Delivery Chain in Heterogenous Networks. *Lecture Notes in Computer Science*, **2011**, 207-219	0.7	
1	Implementation of Context-Aware Network Architecture for Smart Objects Based on Functional Composition. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2013**, 207-216	0.2	