

Carles Gomez

List of Publications by Year in descending order

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55
papers

2,611
citations

489802

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371746

37
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67
all docs

67
docs citations

67
times ranked

3210
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Receiver-Feedback Techniques for Fragmentation Over LPWANs. IEEE Internet of Things Journal, 2022, 9, 6866-6878.	5.5	4
2	Packet Fragmentation Over Sigfox: Implementation and Performance Evaluation of SCHC ACK-on-Error. IEEE Internet of Things Journal, 2022, 9, 11057-11070.	5.5	6
3	Energy Consumption Model of SCHC Packet Fragmentation over Sigfox LPWAN. Sensors, 2022, 22, 2120.	2.1	8
4	Outperforming RPL with scalable routing based on meaningful MAC addressing. Ad Hoc Networks, 2021, 114, 102433.	3.4	13
5	The SF12 Well in LoRaWAN: Problem and End-Device-Based Solutions. Sensors, 2021, 21, 6478.	2.1	4
6	On the Energy Performance of Iridium Satellite IoT Technology. Sensors, 2021, 21, 7235.	2.1	6
7	Performance Analysis and Optimal Tuning of IETF LPWAN SCHC ACK-on-Error Mode. IEEE Sensors Journal, 2020, 20, 14534-14547.	2.4	10
8	Experimental Evaluation of 6BLEMesh: IPv6-Based BLE Mesh Networks. Sensors, 2020, 20, 4623.	2.1	6
9	Multimodal Retransmission Timer for LPWAN. IEEE Internet of Things Journal, 2020, 7, 4827-4838.	5.5	4
10	IPv6 over LPWANs: Connecting Low Power Wide Area Networks to the Internet (of Things). IEEE Wireless Communications, 2020, 27, 206-213.	6.6	42
11	Bluetooth Low Energy Mesh Networks: A Standards Perspective. IEEE Communications Magazine, 2020, 58, 95-101.	4.9	30
12	Internet of Things for enabling smart environments: A technology-centric perspective. Journal of Ambient Intelligence and Smart Environments, 2019, 11, 23-43.	0.8	95
13	Bluetooth Mesh Energy Consumption: A Model. Sensors, 2019, 19, 1238.	2.1	43
14	A Sigfox Energy Consumption Model. Sensors, 2019, 19, 681.	2.1	79
15	LoRaWAN SCHC Fragmentation Demystified. Lecture Notes in Computer Science, 2019, , 213-227.	1.0	7
16	TCP in the Internet of Things: From Ostracism to Prominence. IEEE Internet Computing, 2018, 22, 29-41.	3.2	56
17	Modeling the Connectivity of Data-Channel-Based Bluetooth Low Energy Mesh Networks. IEEE Communications Letters, 2018, 22, 2124-2127.	2.5	18
18	From 6LoWPAN to 6Lo: Expanding the Universe of IPv6-Supported Technologies for the Internet of Things. , 2017, 55, 148-155.		54

#	ARTICLE	IF	CITATIONS
19	Modeling the Energy Performance of LoRaWAN. <i>Sensors</i> , 2017, 17, 2364.	2.1	203
20	Bluetooth Low Energy Mesh Networks: A Survey. <i>Sensors</i> , 2017, 17, 1467.	2.1	113
21	Opportunistic Sensor Data Collection with Bluetooth Low Energy. <i>Sensors</i> , 2017, 17, 159.	2.1	47
22	Experimental evaluation of congestion control for CoAP communications without end-to-end reliability. <i>Ad Hoc Networks</i> , 2016, 52, 183-194.	3.4	10
23	CoAP congestion control for the internet of things. , 2016, 54, 154-160.		119
24	Urban Automation Networks: Current and Emerging Solutions for Sensed Data Collection and Actuation in Smart Cities. <i>Sensors</i> , 2015, 15, 22874-22898.	2.1	32
25	CoCoA+: An advanced congestion control mechanism for CoAP. <i>Ad Hoc Networks</i> , 2015, 33, 126-139.	3.4	65
26	Large-Scale Performance Evaluation of the IETF Internet of Things Protocol Suite for Smart City Solutions. , 2015, , .		3
27	Evaluation of Advanced Congestion Control Mechanisms for Unreliable CoAP Communications. , 2015, , .		7
28	Networking solutions for connecting bluetooth low energy enabled machines to the internet of things. <i>IEEE Network</i> , 2014, 28, 83-90.	4.9	82
29	On the Network Convergence Process in RPL over IEEE 802.15.4 Multihop Networks: Improvement and Trade-Offs. <i>Sensors</i> , 2014, 14, 11993-12022.	2.1	32
30	A Holistic Approach to ZigBee Performance Enhancement for Home Automation Networks. <i>Sensors</i> , 2014, 14, 14932-14970.	2.1	10
31	Congestion control for CoAP cloud services. , 2014, , .		22
32	Modeling the network convergence time in RPL in error-prone, IEEE 802.15.4 chain topology multihop networks. , 2014, , .		2
33	Infrastructureless smart cities. Use cases and performance. , 2014, , .		11
34	DEMON: preemptive route recovery for AODV in multi-hop wireless networks based on performance degradation monitoring. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013, 2013, .	1.5	0
35	A performance study of practical channel assignment solutions in multi-radio multi-hop IEEE 802.11 networks. , 2013, , .		1
36	Congestion control in reliable CoAP communication. , 2013, , .		17

#	ARTICLE	IF	CITATIONS
37	Overview and Evaluation of Bluetooth Low Energy: An Emerging Low-Power Wireless Technology. Sensors, 2012, 12, 11734-11753.	2.1	673
38	Modeling the Message Count of the Trickle Algorithm in a Steady-State, Static Wireless Sensor Network. IEEE Communications Letters, 2012, 16, 1960-1963.	2.5	24
39	Modeling the Maximum Throughput of Bluetooth Low Energy in an Error-Prone Link. IEEE Communications Letters, 2011, 15, 1187-1189.	2.5	52
40	Can Future Internet be based on constrained networks design principles?. Computer Networks, 2011, 55, 893-909.	3.2	7
41	Route change latency in low-power and lossy wireless networks using RPL and 6LoWPAN Neighbor Discovery. , 2011, , .		8
42	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, .	1.5	13
43	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, .	1.5	55
44	Wireless home automation networks: A survey of architectures and technologies. , 2010, 48, 92-101.		417
45	Implementation and Evaluation of the Enhanced Header Compression (IPHC) for 6LoWPAN. Lecture Notes in Computer Science, 2009, , 168-177.	1.0	11
46	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.	0.8	0
47	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.	0.8	13
48	Web Optimization in Real UMTS Networks with Channel Switching Mechanisms. IEEE Vehicular Technology Conference, 2008, , .	0.2	1
49	Focusing the study on wireless multihop networks. , 2008, , .		1
50	Tetra as a Building block to WMNs. , 2007, , 235-298.		2
51	A Study of Local Connectivity Maintenance Strategies of MANET Reactive Routing Protocol Implementations. , 2006, , .		5
52	Impact of Handover Between UMTS and GPRS on TCP/IP: An Empirical Approach. , 2006, , .		3
53	Optimizing TCP/IP parameters over GPRS and WLAN networks. , 2003, , .		5
54	Multilayer analysis of the influence of mobility models on TCP flows in AODV ad-hoc networks. , 0, , .		5

#	ARTICLE	IF	CITATIONS
55	Adapting AODV for IEEE 802.15.4 Mesh Sensor Networks: Theoretical Discussion and Performance Evaluation in a Real Environment. , 0, , .		51