Ãngela HernÃ¡ndez-Solana

List of Publications by Year
in descending order

75 papers	467 citations	1040056 9 h-index	839539 18 g-index
75 all docs	75 docs citations	75 times ranked	444 citing authors

#	ARTICLE	IF	CITATIONS
1	Performance analysis of multiplexed medical data transmission for mobile emergency care over the UMTS channel. IEEE Transactions on Information Technology in Biomedicine, 2005, 9, 13-22.	3.2	89
2	Bluetooth Mesh Analysis, Issues, and Challenges. IEEE Access, 2020, 8, 53784-53800.	4.2	35
3	Proposal and Evaluation of BLE Discovery Process Based on New Features of Bluetooth 5.0. Sensors, 2017, 17, 1988.	3.8	31
4	A Framework for UWB-Based Communication and Location Tracking Systems for Wireless Sensor Networks. Sensors, 2011, 11, 9045-9068.	3.8	29
5	Analytical and Experimental Performance Evaluation of BLE Neighbor Discovery Process Including Non-Idealities of Real Chipsets. Sensors, 2017, 17, 499.	3.8	28
6	Accurate indoor wireless location with IR UWB systems a performance evaluation of joint receiver structures and TOA based mechanism. IEEE Transactions on Consumer Electronics, 2008, 54, 381-389.	3.6	19
7	Comparison of Algorithms for UWB Indoor Location and Tracking Systems. , 2011, , .		18
8	Downlink scheduling for intercell interference fluctuation mitigation in partial-loaded broadband cellular OFDMA systems. , 2009, , .		14
9	QoS provision in mobile adÂhoc networks with an adaptive cross-layer architecture. Wireless Networks, 2009, 15, 1165-1187.	3.0	13
10	Anti-Collision Adaptations of BLE Active Scanning for Dense IoT Tracking Applications. IEEE Access, 2018, 6, 53620-53637.	4.2	12
11	Active Methodologies in a Queueing Systems Course for Telecommunication Engineering Studies. IEEE Transactions on Education, 2010, 53, 405-412.	2.4	10
12	Interference Management through Resource Allocation in Multi-Cell OFDMA Networks. , 2009, , .		9
13	BMADS: BLE Mesh Asynchronous Dynamic Scanning. IEEE Internet of Things Journal, 2021, 8, 2558-2573.	8.7	9
14	Analysis of hidden node problem in LTE networks deployed in unlicensed spectrum. Computer Networks, 2020, 177, 107280.	5.1	9
15	Radio resource allocation for interference management in mobile broadband OFDMA based networks. Wireless Communications and Mobile Computing, 2010, 10, 1409-1430.	1.2	8
16	Evaluation of algorithms for UWB indoor tracking. , 2011, , .		8
17	Speeding Up Bluetooth Mesh. IEEE Access, 2021, 9, 93267-93284.	4.2	8
18	Cross-Layer Routing for QoS Provision in Multiservice Mobile Ad Hoc Networks. , 2006, , .		6

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19	Coexistence of MB-OFDM UWB with Impulse Radio UWB and other radio systems. , 2011, , .		6
20	Interference management and cell range expansion analysis for LTE picocell deployments. , 2013, , .		6
21	SFR-based vs. FFR-based inter-cell interference coordination for inband relay LTE-A networks. , 2014, , .		6
22	A Low-Cost Tracking System for Running Race Applications Based on Bluetooth Low Energy Technology. Sensors, 2018, 18, 922.	3.8	6
23	Evaluation of TOA estimation algorithms in UWB receivers. , 2008, , .		5
24	Radio resource strategies for uplink inter-cell interference fluctuation reduction in SC-FDMA cellular systems. , 2011, , .		5
25	Dealing with the Hidden Node Problem in Multioperator LAA-LTE Scenarios. , 2018, , .		5
26	Experimental Evaluation of Transmitted Signal Distortion Caused by Power Allocation in Inter-Cell Interference Coordination Techniques for LTE/LTE-A and 5G Systems. IEEE Access, 2022, 10, 47854-47868.	4.2	5
27	Inter-Cell Interference Management in SC-FDMA Cellular Systems. , 2011, , .		4
28	An adaptive location management scheme for mobile broadband cellular systems. Telecommunication Systems, 2013, 52, 299-315.	2.5	4
29	Resource allocation and interference management strategies for inband relaying in LTE-A. Telecommunication Systems, 2016, 61, 839-860.	2.5	4
30	Low-cost test measurement setup for real IoT BLE sensor device characterization. Measurement: Journal of the International Measurement Confederation, 2019, 135, 814-827.	5.0	4
31	Distributed Admission Control for Mobile Ad-Hoc Networks based on a Cross-layer Design. IEEE Latin America Transactions, 2007, 5, 425-432.	1.6	3
32	Evaluation of cooperative techniques in an interworking UWB-UMTS platform. , 2008, , .		3
33	Adaptive paging schemes for group calls in mobile broadband cellular systems. , 2010, , .		3
34	Impact of ICI management schemes on packet scheduling strategies in OFDMA systems. , 2010, , .		3
35	Bluetooth low energy sensor networks for railway applications. , 2017, , .		3
36	Evaluation of Radio Resource Management Impact on RoF Signal Transmission for Downlink LTE. Journal of Lightwave Technology, 2018, 36, 1591-1600.	4.6	3

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37	Interference-aware routing with bandwidth requirements in mobile ad hoc networks. , 0, , .		2
38	Performance Analyisis of an Interference-Aware Mac Protocol with Power Control for Wireless Ad Hoc Networks. , 2006, , .		2
39	Analysis and modelling of broadcast services for TDMA wireless ad hoc networks. Electronics Letters, 2007, 43, 350.	1.0	2
40	Analysis of a TDMA MAC Protocol for Wireless Ad Hoc Networks under Multipath Fading Channels. , 2007, , 13-24.		2
41	An adaptive location management scheme for mobile broadband cellular systems. , 2009, , .		2
42	Performance evaluation of nonsynchronized initial random access for mobile broadband systems. Telecommunication Systems, 2010, 43, 279-294.	2.5	2
43	Radio resource management in OFDMA systems for strong frequency reuse in sectorized deployments. , 2010, , .		2
44	Sector-based Radio Resource Management for SC-FDMA cellular systems. , 2011, , .		2
45	Coexistence and interworking between UMTS and UWB: aÂperformance evaluation of a UMTS/UWB interoperability platform. Telecommunication Systems, 2012, 49, 409-420.	2.5	2
46	Dynamic, fair and coordinated resource allocation for backhaul links for heterogeneous load conditions in LTE-advanced relay systems. , 2014, , .		2
47	Resource allocation strategies for full frequency reuse in tri-sectorized multi-cell orthogonal frequency division multiple access systems. Wireless Communications and Mobile Computing, 2014, 14, 297-320.	1.2	2
48	Joint dynamic resource allocation and load balancing-cell selection in LTE-A HetNet scenarios based on Type 1 inband relay deployments. Computer Networks, 2016, 100, 90-109.	5.1	2
49	Detection and Impact of the Hidden Node Problem in LAA-WiFi Coexistence Scenarios. , 2018, , .		2
50	Performance Evaluation of Cross-Layer Routing for QoS Support in Mobile Ad Hoc Networks. Lecture Notes in Computer Science, 2006, , 322-333.	1.3	2
51	Adaptive Resource Sharing Strategies for UMTS Multiservice Mobiles. Telecommunication Systems, 2005, 28, 151-167.	2.5	1
52	Comparative Analysis of Non-Synchronized Initial Random Access for Mobile Broadband Systems. , 2009, , .		1
53	Strategies for optimizing latency and resource utilization in multiple target UWB-based tracking. , 2011, , .		1
54	Adaptive Admission Control for Mobile Ad Hoc Networks based on a Cross-layer Design. , 2007, , 1-12.		1

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55	On Optimizing Network Function Placement for Multicast Group Call Service Provision in LTE IOPS Networks. IEEE Access, 2021, 9, 160897-160916.	4.2	1
56	Machine Learning for Hidden Nodes Detection in Unlicensed LTE Networks. Computer Networks, 2022, 208, 108862.	5.1	1
57	Performance evaluation of adaptive resource sharing strategies for UMTS multiservice mobiles. , 0, , .		0
58	A TDMA Power Controlled MAC Protocol for Wireless Ad Hoc Networks. , 2006, , .		0
59	Design and Evaluation of Strategies for Full Mobility Provision in Bluetooth Wireless Personal Area Networks. , 2006, , .		0
60	Network architecture planning and handoff strategies enabling QoS-aware bluetooth based networks with full mobility. IEEE Transactions on Consumer Electronics, 2008, 54, 1130-1138.	3.6	0
61	Evaluation of architectures and strategies for tracking mobile devices in UWB networks. , 2009, , .		0
62	A TDMA MAC protocol for multiservice wireless ad hoc networks. Wireless Communications and Mobile Computing, 2010, 10, 787-810.	1.2	0
63	Trunking capacity estimation for wide area multicell private mobile radio networks. AEU - International Journal of Electronics and Communications, 2010, 64, 8-16.	2.9	0
64	Channel aware deferring strategies to improve packet scheduling in OFDMA systems. , 2010, , .		0
65	Architectures for location data acquisition and distribution in UWB indoor tracking systems. , 2010, , .		0
66	User based vs. frequency based resource occupation ordering in packet scheduling in OFDMA systems. , 2010, , .		0
67	UWB as a network access technology in picocells. , 2011, , .		0
68	On the Dependence between FPC and ICIC in SC-FDMA Cellular Systems. , 2012, , .		0
69	Adaptive paging schemes for group calls in mobile broadband cellular systems. Wireless Communications and Mobile Computing, 2012, 12, 1442-1457.	1.2	0
70	Throughput gain by hybrid TDM/FDM & spatial reuse of resources among nodes and links for inband relaying. , 2014, , .		0
71	Low-Cost Bluetooth Low Energy Positioning and Timing System for Sports Events. Proceedings (mdpi), 2017, 1, .	0.2	0
72	Joint Spatial Relay Distribution and Resource Allocation & ICIC Strategies for Performance Enhancement for Inband Relay LTEâ€“A Systems. Lecture Notes in Computer Science, 2014, , 177-190.	1.3	0

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73	A Hybrid WLAN-Bluetooth Access Network Solution for a More Efficient VoIP-Data & Video Traffic Management. , 2007, , 133-144.		0
74	PSM-DMO: Power Save Mode and Discontinuous BLE Mesh Operation. Computer Networks, 2022, , 109114.	5.1	0
75	On the use of sniffers for spectrum occupancy measurements of Bluetooth low energy primary channels. Measurement: Journal of the International Measurement Confederation, 2022, 199, 111573.	5.0	0