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	Machine Learning for Hidden Nodes Detection in Unlicensed LTE Networks. Computer Networks, 2022, 208, 108862.	5.1	1
2	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
3	PSM-DMO: Power Save Mode and Discontinuous BLE Mesh Operation. Computer Networks, 2022, , 109114.	5.1	0
4	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
5	BMADS: BLE Mesh Asynchronous Dynamic Scanning. IEEE Internet of Things Journal, 2021, 8, 2558-2573.	8.7	9
6	Speeding Up Bluetooth Mesh. IEEE Access, 2021, 9, 93267-93284.	4.2	8
7	On Optimizing Network Function Placement for Multicast Group Call Service Provision in LTE IOPS Networks. IEEE Access, 2021, 9, 160897-160916.	4.2	1
8	Bluetooth Mesh Analysis, Issues, and Challenges. IEEE Access, 2020, 8, 53784-53800.	4.2	35
9	Analysis of hidden node problem in LTE networks deployed in unlicensed spectrum. Computer Networks, 2020, 177, 107280.	5.1	9
10	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
11	Evaluation of Radio Resource Management Impact on RoF Signal Transmission for Downlink LTE. Journal of Lightwave Technology, 2018, 36, 1591-1600.	4.6	3
12	Detection and Impact of the Hidden Node Problem in LAA-WiFi Coexistence Scenarios. , 2018, , .		2
13	Dealing with the Hidden Node Problem in Multioperator LAA-LTE Scenarios. , 2018, , .		5
14	Anti-Collision Adaptations of BLE Active Scanning for Dense IoT Tracking Applications. IEEE Access, 2018, 6, 53620-53637.	4.2	12
15	A Low-Cost Tracking System for Running Race Applications Based on Bluetooth Low Energy Technology. Sensors, 2018, 18, 922.	3.8	6
16	Bluetooth low energy sensor networks for railway applications. , 2017, , .		3
17	Low-Cost Bluetooth Low Energy Positioning and Timing System for Sports Events. Proceedings (mdpi), 2017, 1, .	0.2	0
18	Analytical and Experimental Performance Evaluation of BLE Neighbor Discovery Process Including Non-Idealities of Real Chipsets. Sensors, 2017, 17, 499.	3.8	28

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19	Proposal and Evaluation of BLE Discovery Process Based on New Features of Bluetooth 5.0. Sensors, 2017, 17, 1988.	3.8	31
20	Resource allocation and interference management strategies for inband relaying in LTE-A. Telecommunication Systems, 2016, 61, 839-860.	2.5	4
21	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
22	SFR-based vs. FFR-based inter-cell interference coordination for inband relay LTE-A networks. , 2014, , .		6
23	Throughput gain by hybrid TDM/FDM & spatial reuse of resources among nodes and links for inband relaying. , 2014, , .		0
24	Dynamic, fair and coordinated resource allocation for backhaul links for heterogeneous load conditions in LTE-advanced relay systems. , 2014, , .		2
25	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
26	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
27	An adaptive location management scheme for mobile broadband cellular systems. Telecommunication Systems, 2013, 52, 299-315.	2.5	4
28	Interference management and cell range expansion analysis for LTE picocell deployments. , 2013, , .		6
29	On the Dependence between FPC and ICIC in SC-FDMA Cellular Systems. , 2012, , .		0
30	Adaptive paging schemes for group calls in mobile broadband cellular systems. Wireless Communications and Mobile Computing, 2012, 12, 1442-1457.	1.2	0
31	Coexistence and interworking between UMTS and UWB: aÂperformance evaluation of a UMTS/UWB interoperability platform. Telecommunication Systems, 2012, 49, 409-420.	2.5	2
32	Radio resource strategies for uplink inter-cell interference fluctuation reduction in SC-FDMA cellular systems. , 2011, , .		5
33	Coexistence of MB-OFDM UWB with Impulse Radio UWB and other radio systems. , 2011, , .		6
34	Strategies for optimizing latency and resource utilization in multiple target UWB-based tracking. , 2011, , .		1
35	Sector-based Radio Resource Management for SC-FDMA cellular systems. , 2011, , .		2
36	UWB as a network access technology in picocells. , 2011, , .		0

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37	Evaluation of algorithms for UWB indoor tracking. , 2011, , .		8
38	Comparison of Algorithms for UWB Indoor Location and Tracking Systems. , 2011, , .		18
39	Inter-Cell Interference Management in SC-FDMA Cellular Systems. , 2011, , .		4
40	A Framework for UWB-Based Communication and Location Tracking Systems for Wireless Sensor Networks. Sensors, 2011, 11, 9045-9068.	3.8	29
41	A TDMA MAC protocol for multiservice wireless ad hoc networks. Wireless Communications and Mobile Computing, 2010, 10, 787-810.	1.2	0
42	Performance evaluation of nonsynchronized initial random access for mobile broadband systems. Telecommunication Systems, 2010, 43, 279-294.	2.5	2
43	Active Methodologies in a Queueing Systems Course for Telecommunication Engineering Studies. IEEE Transactions on Education, 2010, 53, 405-412.	2.4	10
44	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
45	Radio resource allocation for interference management in mobile broadband OFDMA based networks. Wireless Communications and Mobile Computing, 2010, 10, 1409-1430.	1.2	8
46	Adaptive paging schemes for group calls in mobile broadband cellular systems. , 2010, , .		3
47	Impact of ICI management schemes on packet scheduling strategies in OFDMA systems. , 2010, , .		3
48	Channel aware deferring strategies to improve packet scheduling in OFDMA systems. , 2010, , .		0
49	Architectures for location data acquisition and distribution in UWB indoor tracking systems. , 2010, , .		0
50	User based vs. frequency based resource occupation ordering in packet scheduling in OFDMA systems. , 2010, , .		0
51	Radio resource management in OFDMA systems for strong frequency reuse in sectorized deployments. , 2010, , .		2
52	An adaptive location management scheme for mobile broadband cellular systems. , 2009, , .		2
53	Evaluation of architectures and strategies for tracking mobile devices in UWB networks. , 2009, , .		0
54	QoS provision in mobile adÂhoc networks with an adaptive cross-layer architecture. Wireless Networks, 2009, 15, 1165-1187.	3.0	13

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55	Interference Management through Resource Allocation in Multi-Cell OFDMA Networks. , 2009, , .		9
56	Comparative Analysis of Non-Synchronized Initial Random Access for Mobile Broadband Systems. , 2009, , .		1
57	Downlink scheduling for intercell interference fluctuation mitigation in partial-loaded broadband cellular OFDMA systems. , 2009, , .		14
58	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
59	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
60	Evaluation of cooperative techniques in an interworking UWB-UMTS platform. , 2008, , .		3
61	Evaluation of TOA estimation algorithms in UWB receivers. , 2008, , .		5
62	Analysis and modelling of broadcast services for TDMA wireless ad hoc networks. Electronics Letters, 2007, 43, 350.	1.0	2
63	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
64	Analysis of a TDMA MAC Protocol for Wireless Ad Hoc Networks under Multipath Fading Channels. , 2007, , 13-24.		2
65	Adaptive Admission Control for Mobile Ad Hoc Networks based on a Cross-layer Design. , 2007, , 1-12.		1
66	A Hybrid WLAN-Bluetooth Access Network Solution for a More Efficient VoIP-Data & Video Traffic Management. , 2007, , 133-144.		0
67	Performance Analyisis of an Interference-Aware Mac Protocol with Power Control for Wireless Ad Hoc Networks. , 2006, , .		2
68	Cross-Layer Routing for QoS Provision in Multiservice Mobile Ad Hoc Networks. , 2006, , .		6
69	A TDMA Power Controlled MAC Protocol for Wireless Ad Hoc Networks. , 2006, , .		0
70	Design and Evaluation of Strategies for Full Mobility Provision in Bluetooth Wireless Personal Area Networks. , 2006, , .		0
71	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
72	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

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73	Adaptive Resource Sharing Strategies for UMTS Multiservice Mobiles. Telecommunication Systems, 2005, 28, 151-167.	2.5	1
74	Performance evaluation of adaptive resource sharing strategies for UMTS multiservice mobiles. , 0, , .		0
75	Interference-aware routing with bandwidth requirements in mobile ad hoc networks. , 0, , .		2