

Fernando J Velez

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

1,163
citations

840776

11
h-index

552781

26
g-index

141
all docs

141
docs citations

141
times ranked

1293
citing authors

#	ARTICLE	IF	CITATIONS
1	Survey on the Characterization and Classification of Wireless Sensor Network Applications. IEEE Communications Surveys and Tutorials, 2014, 16, 1860-1890.	39.4	208
2	Wireless sensor networks for temperature and humidity monitoring within concrete structures. Construction and Building Materials, 2013, 40, 1156-1166.	7.2	119
3	Cognitive radio for medical body area networks using ultra wideband. IEEE Wireless Communications, 2012, 19, 74-81.	9.0	50
4	Application of Wireless Sensor Networks to Automobiles. Measurement Science Review, 2008, 8, .	1.0	44
5	Antennas and circuits for ambient RF energy harvesting in wireless body area networks. , 2013, , .		38
6	Mobile broadband services: classification, characterization, and deployment scenarios. , 2002, 40, 142-150.		37
7	Radio-frequency energy harvesting for wearable sensors. Healthcare Technology Letters, 2015, 2, 22-27.	3.3	36
8	Carbon Fiber Epoxy Composites for Both Strengthening and Health Monitoring of Structures. Sensors, 2015, 15, 10753-10770.	3.8	35
9	Pluralistic licensing. , 2012, , .		24
10	WiMAX Networks. , 2010, , .		21
11	Spectrum Aggregation with Multi-band User Allocation over Two Frequency Bands. , 2009, , .		20
12	Design of Communication and Control for Swarms of Aquatic Surface Drones. , 2015, , .		20
13	Title is missing!. Wireless Personal Communications, 2001, 19, 1-24.	2.7	19
14	Optimisation of Mobile Broadband Multi-Service Systems Based in Economics Aspects. Wireless Networks, 2003, 9, 525-533.	3.0	19
15	Spectrum opportunities for electromagnetic energy harvesting from 350 mhz to 3 ghz. , 2013, , .		19
16	Wireless Sensor and Networking Technologies for Swarms of Aquatic Surface Drones. , 2015, , .		19
17	Hybrid Matched Filter Detection Spectrum Sensing. IEEE Access, 2021, 9, 165504-165516.	4.2	18
18	Smart-clothing wireless flex sensor belt network for foetal health monitoring. , 2009, , .		17

#	ARTICLE	IF	CITATIONS
19	Accuracy details in realistic CFD modeling of an industrial centrifugal pump in direct and reverse modes. <i>Journal of Thermal Science</i> , 2010, 19, 491-499.	1.9	16
20	Design and evaluation of multi-band RF energy harvesting circuits and antennas for WSNs. , 2014, , .		12
21	IEEE 802.15.4 MAC layer performance enhancement by employing RTS/CTS combined with packet concatenation. , 2014, , .		12
22	OFDMA WiMAX Physical Layer. , 2010, , 63-135.		12
23	Analysis of photonic crystal fibers: Scalar solution and polarization correction. <i>Optics Express</i> , 2006, 14, 11848.	3.4	11
24	Overview of progress in Smart-Clothing project for health monitoring and sport applications. , 2008, , .		11
25	Integrated Common Radio Resource Management with Spectrum Aggregation Over Non-Contiguous Frequency Bands. <i>Wireless Personal Communications</i> , 2011, 59, 499-523.	2.7	11
26	Multicarrier Waveform Candidates for Beyond 5G. , 2020, , .		11
27	Generalized LUI Propagation Model for UAVs Communications Using Terrestrial Cellular Networks. , 2015, , .		10
28	QoS Metrics for Cross-Layer Design and Network Planning for B3G Systems. , 2006, , .		9
29	Multi-operator resource sharing scenario in the context of IMT-Advanced systems. , 2009, , .		9
30	Planning and Deployment of WiMAX Networks. <i>Wireless Personal Communications</i> , 2010, 55, 305-323.	2.7	9
31	Cost/Revenue Tradeoff in the Optimization of Fixed WiMAX Deployment With Relays. <i>IEEE Transactions on Vehicular Technology</i> , 2011, 60, 298-312.	6.3	9
32	Aspects of Cellular Planning for Emergency and Safety Services in Mobile WiMax Networks. , 0, , .		8
33	Design and Planning of IEEE 802.16 Networks. , 2007, , .		8
34	Service characterization for cost/benefit optimization of enhanced UMTS. <i>Telecommunication Systems</i> , 2012, 50, 31-45.	2.5	8
35	Deployment scenarios for mobile broadband communications. , 0, , .		7
36	Implementation of IEEE 802.11e block acknowledgement policies based on the buffer size. , 2008, , .		7

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37	Economic trade-off in the optimization of carrier aggregation with enhanced multi-band scheduling in LTE-Advanced scenarios. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	7
38	Impact of propagation model on capacity in small-cell networks. , 2017, , .		7
39	Classification and characterisation of mobile broadband services. , 0, , .		6
40	Applications of Wireless Sensor Networks. , 0, , 38-74.		6
41	Opportunistic load and spectrum management for mobile communications energy efficiency. , 2011, , .		6
42	Mapping between Average SINR and Supported Throughput in 5G New Radio Small Cell Networks. , 2019, , .		6
43	Deployment scenarios and applications characterisation for enhanced UMTS simulation. , 2004, , .		6
44	Scenarios and applications for wearable technologies and WBSNs with energy harvesting. , 2019, , 31-51.		6
45	Validation of the unified propagation model for Wi-Fi, UMTS and WiMAX planning. , 2010, , .		5
46	Unified propagation model for Wi-Fi, UMTS and WiMAX planning in mixed scenarios. , 2010, , .		5
47	Block acknowledgment mechanisms for the optimization of channel use in wireless sensor networks. , 2013, , .		5
48	Experimental Characterization of Wearable Antennas and Circuits for RF Energy Harvesting in WBANs. , 2014, , .		5
49	Extending the LTE-Sim Simulator with Multi-Band Scheduling Algorithms for Carrier Aggregation in LTE-Advanced Scenarios. , 2015, , .		5
50	Basic limits for LTE-Advanced radio and HetNet optimization in the outdoor-to-indoor scenario. , 2016, , .		5
51	A Multifunctional Integrated Circuit Router for Body Area Network Wearable Systems. IEEE/ACM Transactions on Networking, 2020, 28, 1981-1994.	3.8	5
52	Cost/revenue optimisation in multi-service mobile broadband systems. , 0, , .		4
53	Design of cell size and frequency reuse for a millimeterwave highway coverage cellular communications system. , 0, , .		4
54	Tele-Traffic Simulation for Mobile Communication Systems Beyond 3G. , 2006, , .		4

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55	Optimization of multi-service IEEE802.11e block acknowledgement. , 2009, , .		4
56	Wearable Sensors for Foetal Movement Monitoring in Low Risk Pregnancies. Lecture Notes in Electrical Engineering, 2010, , 115-136.	0.4	4
57	Impact of considering the ITU-R two slope propagation model in the system capacity trade-off for LTE-A HetNets with small cells. , 2017, , .		4
58	Design of Coordinated HeNB Deployments. , 2018, , .		4
59	Submandibular duct transposition for drooling in children: A Casuistic review and evaluation of grade of satisfaction. International Journal of Pediatric Otorhinolaryngology, 2018, 113, 58-61.	1.0	4
60	High capacity wideband traffic in enhanced UMTS: a step towards 4G. , 2004, , .		4
61	Planning of an IEEE 802.16e network for emergency and safety services. , 2005, , .		4
62	Overview of Network Slicing: Business and Standards Perspective for Beyond 5G Networks. , 2021, , .		4
63	Impact of mobility in mobile broadband systems multi-service traffic. , 0, , .		3
64	Cost/Revenue Optimisation of Multi-Service Cellular Planning for City Centre E-UMTS. , 2007, , .		3
65	Service Suitability Based RAT Selection for Beyond 3G Systems. , 2008, , .		3
66	Optimal load suitability based RAT selection for HSDPA and IEEE 802.11e. , 2009, , .		3
67	Modelling and simulation of B3G multi-service traffic in the presence of mobility. Wireless Networks, 2010, 16, 659-669.	3.0	3
68	Intra-operator spectrum sharing concepts for energy efficiency and throughput enhancement. , 2010, , .		3
69	LTE radio and network planning: Basic coverage and interference constraints. , 2015, , .		3
70	Transmitted Power Formulation for the Optimization of Spectrum Aggregation in LTE-A over 800MHz and 2GHz Frequency Bands. Wireless Personal Communications, 2017, 93, 833-852.	2.7	3
71	Supporting Unified Distributed Management and Autonomic Decisions: Design, Implementation and Deployment. Journal of Network and Systems Management, 2017, 25, 416-456.	4.9	3
72	Performance Evaluation and Packet Scheduling in HeNB Deployments. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
73	Cost/Revenue Trade-Off of Small Cell Networks in the Millimetre Wavebands. , 2018, , .		3
74	Capacity/cost trade-off for 5G small cell networks in the UHF and SHF bands. , 2019, , .		3
75	Enhanced UMTS cost/revenue optimisation in offices scenarios. , 2005, , .		3
76	Urban Cellular Planning Optimisation of Multi-service Enhanced UMTS Based in Economic Issues. Lecture Notes in Computer Science, 2006, , 178-189.	1.3	3
77	Performance Evaluation and Traffic Modeling. Lecture Notes in Electrical Engineering, 2009, , 89-150.	0.4	3
78	Smart Textiles for Strengthening of Structures. Open Engineering, 2016, 6, .	1.6	3
79	Capacity trade-offs in mobile broadband systems using guard channels for high mobility handover. , 0, , .		2
80	Enhanced UMTS Cellular Planning for Multiple Traffic Classes in Offices Scenarios. , 2006, , .		2
81	Basic limits for fixed worldwide interoperability for microwave access optimisation based in economic aspects. IET Communications, 2010, 4, 1116.	2.2	2
82	Energy saving in the optimization of the planning of fixed WiMAX with relays in hilly terrains: Impact of sleep modes and cell zooming. , 2012, , .		2
83	A Model for Mapping between the Quality of Service and Experience for Wireless Multimedia Applications. , 2014, , .		2
84	Economic Trade-off of Small Cell Networks: Comparison between the Millimetre Wavebands and UHF/SHF bands. , 2019, , .		2
85	An Extensive Study on the Performance Evaluation and Scheduling of HeNBs. IEEE Access, 2021, 9, 40098-40110.	4.2	2
86	Performance enhancement of IEEE 802.15.4 by employing RTS/CTS and frame concatenation. IET Wireless Sensor Systems, 2020, 10, 308-319.	1.7	2
87	Validation of models for traffic resulting from mobility in microcellular mobile broadband systems. , 0, , .		1
88	<title>Modeling of photonic crystal fibers with the scalar finite element method</title>. , 2004, 5622, 849.		1
89	Optimisation of Enhanced UMTS Cellular Planning Based in Economic Aspects. , 2006, , .		1
90	Modelling and Simulation of Multi-Rate Multi-Service Traffic in the Presence of Mobility. , 2006, , .		1

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91	Event-Based Simulation for Multi-rate Multi-service Traffic Validation in B3G Systems. IEEE Vehicular Technology Conference, 2007, , .	0.4	1
92	Spectral Response of FBC Written in Specialty Single-Mode Fibers. AIP Conference Proceedings, 2008, , .	0.4	1
93	A Cross-Layer Multi-Hop Simulator for IEEE 802.11e. Wireless Personal Communications, 2011, 58, 545-563.	2.7	1
94	Experimental characterisation of WiMAX propagation in different environments. , 2011, , .		1
95	Combined Hop Count and Received Signal Strength Routing Protocol for Mobility-Enabled WSNs. , 2012, , .		1
96	Opportunistic spectrum and load management for green radio networks. , 0, , 167-189.		1
97	Cost/revenue performance in an IMT-Advanced scenario with Spectrum Aggregation over non-contiguous frequency bands. , 2014, , .		1
98	Insights on Spectrum Sharing in Heterogeneous Networks with Small Cells. , 2018, , .		1
99	Impact of the Propagation Model on the Capacity in Smallâ€Cell Networks: Comparison Between the UHF/SHF and the Millimeter Wavebands. Radio Science, 2021, 56, e2020RS007150.	1.6	1
100	IEEE 802.11E Block Acknowledgement Policies. Lecture Notes in Electrical Engineering, 2009, , 231-242.	0.4	1
101	Radio and Network Planning. , 2010, , 315-364.		1
102	The Evolution Towards WiMAX. , 2010, , 1-62.		1
103	Business Models and Cost/Revenue Optimization. , 2010, , 395-421.		1
104	Medium Access Control Layer. , 2010, , 137-190.		1
105	Two innovative energy efficient IEEE 802.15.4 MAC sub-layer protocols with packet concatenation: employing RTS/CTS and multichannel scheduled channel polling. , 2019, , 241-288.		1
106	Reference Scenarios and Key Performance Indicators for 5G Ultra-dense Networks. , 2020, , .		1
107	TeamUp5G: A Multidisciplinary Approach to Training and Research on New RAN Techniques for 5G Ultra-Dense Mobile Networks. , 2020, , .		1
108	A Study on Cross-Carrier Scheduler for Carrier Aggregation in Beyond 5G Networks. , 2022, , .		1

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109	Seeking for an Optimal Route in IEEE 802.11e Ad-Hoc Networks. , 2009, , .		0
110	Influence of a Few More Channels for Voice Support in B3G Multi-Service Traffic in the Presence of Mobility. , 2010, , .		0
111	Model for the correlation between quality of service and experience in cognitive radio networks. , 2011, , .		0
112	Highlights on the Workshop 20 Years of Instituto de Telecomunicacoes (Tenth Anniversary of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	3.4	0
113	Cost/revenue optimization of WiMAX networks with relay power saving modes: Measurement-Based scenario in a hilly region. , 2012, , .		0
114	Block acknowledgment in IEEE 802.15.4 by employing DSSS and CSS PHY layers. , 2014, , .		0
115	A two-phase contention window control scheme for decentralized wireless networks. , 2014, , .		0
116	Dynamic Configuration and Optimization of WiMAX Networks with Relay Power Saving Modes: Measurement-Based Scenario in a Hilly Region. Wireless Personal Communications, 2015, 85, 937-958.	2.7	0
117	Source Routing Minimum Cost Forwarding Protocol over 6TiSCH Applied to the OpenMote-B Multi-hop Platform. , 2019, , .		0
118	System Level Simulation of Urban Micro-cellular 4G Scenarios in the Sub-6 GHz Frequency Bands. , 2021, , .		0
119	Multiple Antenna Technology. , 2010, , 423-450.		0
120	Security Sublayer. , 2010, , 215-250.		0
121	System Capacity. , 2010, , 365-393.		0
122	WiMAX and Wireless Standards. , 2010, , 451-475.		0
123	Interoperability Between IEEE 802.11e and HSDPA: Challenges from Cognitive Radio. , 2011, , 351-371.		0
124	Frame Capture and Reliability Based Decider Implementation in the MiXiM IEEE 802.15.4 Framework. , 2014, , .		0
125	Cognitive radio and RF energy harvesting for medical WBANS. , 2019, , 211-240.		0
126	Radio frequency energy harvesting and storing in supercapacitors for wearable sensors. , 2019, , 457-543.		0

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127	Wearable sensors for foetal movement monitoring in low risk pregnancies. , 2019, , 417-456.		0
128	Characterization of Indoor Small Cells Propagation. , 2021, , .		0