

# Peio Lopez-Iturri

## List of Publications by Year in descending order

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papers

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48  
docs citations

48  
times ranked

758  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of low power wide area network wireless technologies in smart agriculture for large-scale farm monitoring and tractor communications. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110231.	2.5	22
2	Bi2Bi Communication: Toward Encouragement of Sustainable Smart Mobility. IEEE Access, 2022, 10, 9380-9394.	2.6	3
3	Spatial V2X Traffic Density Channel Characterization for Urban Environments. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2761-2774.	4.7	11
4	Wireless Characterization and Assessment of an UWB-Based System in Industrial Environments. IEEE Access, 2021, 9, 107824-107841.	2.6	6
5	Basketball Player On-Body Biophysical and Environmental Parameter Monitoring Based on Wireless Sensor Network Integration. IEEE Access, 2021, 9, 27051-27066.	2.6	5
6	Empirical and Modeling Approach for Environmental Indoor RF-EMF Assessment in Complex High-Node Density Scenarios: Public Shopping Malls Case Study. IEEE Access, 2021, 9, 46755-46775.	2.6	9
7	Towards Environmental RF-EMF Assessment of mmWave High-Node Density Complex Heterogeneous Environments. Sensors, 2021, 21, 8419.	2.1	3
8	Deterministic 3D Ray-Launching Millimeter Wave Channel Characterization for Vehicular Communications in Urban Environments. Sensors, 2020, 20, 5284.	2.1	10
9	Aggregator to Electric Vehicle LoRaWAN Based Communication Analysis in Vehicle-to-Grid Systems in Smart Cities. IEEE Access, 2020, 8, 124688-124701.	2.6	33
10	Implementation of an Interactive Environment With Multilevel Wireless Links for Distributed Botanical Garden in University Campus. IEEE Access, 2020, 8, 132382-132396.	2.6	10
11	Patient Tracking in a Multi-Building, Tunnel-Connected Hospital Complex. IEEE Sensors Journal, 2020, 20, 14453-14464.	2.4	8
12	Towards Sub-Meter Level UWB Indoor Localization Using Body Wearable Sensors. IEEE Access, 2020, 8, 178886-178899.	2.6	26
13	Radio Wave Propagation and WSN Deployment in Complex Utility Tunnel Environments. Sensors, 2020, 20, 6710.	2.1	15
14	Design, Implementation, and Empirical Validation of an IoT Smart Irrigation System for Fog Computing Applications Based on LoRa and LoRaWAN Sensor Nodes. Sensors, 2020, 20, 6865.	2.1	46
15	Fifth-Generation (5G) mmWave Spatial Channel Characterization for Urban Environmentsâ€™ System Analysis. Sensors, 2020, 20, 5360.	2.1	19
16	From 2G to 5G Spatial Modeling of Personal RF-EMF Exposure Within Urban Public Trams. IEEE Access, 2020, 8, 100930-100947.	2.6	22
17	A 3D Ray Launching Time-Frequency Channel Modeling Approach for UWB Ranging Applications. IEEE Access, 2020, 8, 97321-97334.	2.6	5
18	Building Decentralized Fog Computing-Based Smart Parking Systems: From Deterministic Propagation Modeling to Practical Deployment. IEEE Access, 2020, 8, 117666-117688.	2.6	15

#	ARTICLE	IF	CITATIONS
19	Design and Empirical Validation of a LoRaWAN IoT Smart Irrigation System. Proceedings (mdpi), 2020, 42, .	0.2	21
20	Impact of Body Wearable Sensor Positions on UWB Ranging. IEEE Sensors Journal, 2019, 19, 11449-11457.	2.4	31
21	Design and Experimental Validation of a LoRaWAN Fog Computing Based Architecture for IoT Enabled Smart Campus Applications. Sensors, 2019, 19, 3287.	2.1	51
22	Performance Evaluation and Interference Characterization of Wireless Sensor Networks for Complex High-Node Density Scenarios. Sensors, 2019, 19, 3516.	2.1	7
23	A Radio Channel Model for D2D Communications Blocked by Single Trees in Forest Environments. Sensors, 2019, 19, 4606.	2.1	16
24	Implementation of Radiating Elements for Radiofrequency Front-Ends by Screen-Printing Techniques for Internet of Things Applications. Sensors, 2019, 19, 3626.	2.1	4
25	FDTD and Empirical Exploration of Human Body and UWB Radiation Interaction on TOF Ranging. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1119-1123.	2.4	24
26	Analysis, Design and Empirical Validation of a Smart Campus Based on LoRaWAN. Proceedings (mdpi), 2019, 4, 7.	0.2	2
27	Spatial Characterization of Personal RF-EMF Exposure in Public Transportation Buses. IEEE Access, 2019, 7, 33038-33054.	2.6	22
28	Effects of the Body Wearable Sensor Position on the UWB Localization Accuracy. Electronics (Switzerland), 2019, 8, 1351.	1.8	21
29	Implementation and Operational Analysis of an Interactive Intensive Care Unit within a Smart Health Context. Sensors, 2018, 18, 389.	2.1	15
30	Deterministic Propagation Modeling for Intelligent Vehicle Communication in Smart Cities. Sensors, 2018, 18, 2133.	2.1	10
31	Radio Channel Characterization in Dense Forest Environments for IoT-5G. Proceedings (mdpi), 2018, 4, .	0.2	2
32	Wireless Performance in Dense-Transceiver Scenarios to Enable Context-Aware Scenarios. , 2018, , 329-350.		0
33	Optimization and Design of Wireless Systems for the Implementation of Context Aware Scenarios in Railway Passenger Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2838-2850.	4.7	15
34	Influence of meshing adaption in convergence performance of deterministic ray launching estimation in indoor scenarios. Journal of Electromagnetic Waves and Applications, 2017, 31, 544-559.	1.0	15
35	Optimized Wireless Channel Characterization in Large Complex Environments by Hybrid Ray Launching-Collaborative Filtering Approach. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 780-783.	2.4	43
36	Design and Implementation of Context Aware Applications With Wireless Sensor Network Support in Urban Train Transportation Environments. IEEE Sensors Journal, 2017, 17, 169-178.	2.4	39

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37	Spatial Characterization of Radio Propagation Channel in Urban Vehicle-to-Infrastructure Environments to Support WSNs Deployment. <i>Sensors</i> , 2017, 17, 1313.	2.1	19
38	Challenges in Wireless System Integration as Enablers for Indoor Context Aware Environments. <i>Sensors</i> , 2017, 17, 1616.	2.1	8
39	Implementation and Analysis of ISM 2.4 GHz Wireless Sensor Network Systems in Judo Training Venues. <i>Sensors</i> , 2016, 16, 1247.	2.1	8
40	Implementation of Context Aware e-Health Environments Based on Social Sensor Networks. <i>Sensors</i> , 2016, 16, 310.	2.1	15
41	Evaluation of Deployment Challenges of Wireless Sensor Networks at Signalized Intersections. <i>Sensors</i> , 2016, 16, 1140.	2.1	10
42	Implementation and Analysis of a Wireless Sensor Network-Based Pet Location Monitoring System for Domestic Scenarios. <i>Sensors</i> , 2016, 16, 1384.	2.1	16
43	Implementation of Wireless Sensor Network Architecture for Interactive Shopping Carts to Enable Context-Aware Commercial Areas. <i>IEEE Sensors Journal</i> , 2016, 16, 5416-5425.	2.4	8
44	An accurate UTD extension to a ray-launching algorithm for the analysis of complex indoor radio environments. <i>Journal of Electromagnetic Waves and Applications</i> , 2016, 30, 43-60.	1.0	16
45	Design and performance analysis of wireless body area networks in complex indoor e-Health hospital environments for patient remote monitoring. <i>International Journal of Distributed Sensor Networks</i> , 2016, 12, 155014771666806.	1.3	12
46	Analysis of Wireless Sensor Network Topology and Estimation of Optimal Network Deployment by Deterministic Radio Channel Characterization. <i>Sensors</i> , 2015, 15, 3766-3788.	2.1	14
47	Radio Characterization for ISM 2.4 GHz Wireless Sensor Networks for Judo Monitoring Applications. <i>Sensors</i> , 2014, 14, 24004-24028.	2.1	6
48	Analysis of Radio Wave Propagation for ISM 2.4 GHz Wireless Sensor Networks in Inhomogeneous Vegetation Environments. <i>Sensors</i> , 2014, 14, 23650-23672.	2.1	16