

Hicham Klaina

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

764
citations

516215

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h-index

610482

24
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72
all docs

72
docs citations

72
times ranked

769
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	Wireless Characterization and Assessment of an UWB-Based System in Industrial Environments. IEEE Access, 2021, 9, 107824-107841.	2.6	6
3	Design and Experimental Validation of an Augmented Reality System With Wireless Integration for Context Aware Enhanced Show Experience in Auditoriums. IEEE Access, 2021, 9, 5466-5484.	2.6	4
4	IoT Enabled Low Cost Distributed Angle Measurement Fault Detection System for LFR Plants. IEEE Sensors Journal, 2021, 21, 24855-24868.	2.4	2
5	Deterministic and Empirical Approach for Millimeter-Wave Complex Outdoor Smart Parking Solution Deployments. Sensors, 2021, 21, 4112.	2.1	9
6	Enabling Customizable Services for Multimodal Smart Mobility With City-Platforms. IEEE Access, 2021, 9, 41628-41646.	2.6	17
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	Analysis of Phase Evolution Impact in SIMO Operation in Distributed Transceiver Systems. , 2020, , .		0
14	Radio Wave Propagation and WSN Deployment in Complex Utility Tunnel Environments. Sensors, 2020, 20, 6710.	2.1	15
15	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
16	Analysis and Design of IoT-Enabled, Low-Cost Distributed Angle Measurement System. Proceedings (mdpi), 2020, 42, 58.	0.2	1
17	Wireless Channel Characterization and System Analysis of Complex Utility Tunnel Environments. Proceedings (mdpi), 2020, 42, 53.	0.2	0
18	Millimeter Wave Spatial Channel Characterization for Vehicular Communications. Proceedings (mdpi), 2020, 42, 64.	0.2	3

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19	Fifth-Generation (5G) mmWave Spatial Channel Characterization for Urban Environmentsâ€™ System Analysis. <i>Sensors</i> , 2020, 20, 5360.	2.1	19
20	A 3D Ray Launching Time-Frequency Channel Modeling Approach for UWB Ranging Applications. <i>IEEE Access</i> , 2020, 8, 97321-97334.	2.6	5
21	Building Decentralized Fog Computing-Based Smart Parking Systems: From Deterministic Propagation Modeling to Practical Deployment. <i>IEEE Access</i> , 2020, 8, 117666-117688.	2.6	15
22	Design and Empirical Validation of a LoRaWAN IoT Smart Irrigation System. <i>Proceedings (mdpi)</i> , 2020, 42, .	0.2	21
23	Deterministic Radio Channel Characterization for Near-Ground Wireless Sensor Networks Deployment Optimization in Smart Agriculture. , 2020, , .		2
24	Implementation of a WSN-Based IIoT Monitoring System within the Workshop of a Solar Protection Curtains Company. , 2020, 2, .		1
25	Deterministic Propagation Approach for Millimeter Wave Outdoor Smart Parking Solution Deployment. , 2020, 2, .		0
26	Impact of Body Wearable Sensor Positions on UWB Ranging. <i>IEEE Sensors Journal</i> , 2019, 19, 11449-11457.	2.4	31
27	Design and Experimental Validation of a LoRaWAN Fog Computing Based Architecture for IoT Enabled Smart Campus Applications. <i>Sensors</i> , 2019, 19, 3287.	2.1	51
28	Performance Evaluation and Interference Characterization of Wireless Sensor Networks for Complex High-Node Density Scenarios. <i>Sensors</i> , 2019, 19, 3516.	2.1	7
29	A Radio Channel Model for D2D Communications Blocked by Single Trees in Forest Environments. <i>Sensors</i> , 2019, 19, 4606.	2.1	16
30	Circuit Optimization and Analysis for Compatibility Assessment in Integrated Product Design. , 2019, , .		0
31	Implementation of Radiating Elements for Radiofrequency Front-Ends by Screen-Printing Techniques for Internet of Things Applications. <i>Sensors</i> , 2019, 19, 3626.	2.1	4
32	Analysis, Design and Empirical Validation of a Smart Campus Based on LoRaWAN. <i>Proceedings (mdpi)</i> , 2019, 4, 7.	0.2	2
33	Spatial Characterization of Personal RF-EMF Exposure in Public Transportation Buses. <i>IEEE Access</i> , 2019, 7, 33038-33054.	2.6	22
34	Intra-Train Connectivity Analysis to Enable Context Aware Passenger Environments. , 2019, , .		0
35	Wireless Channel Assessment of Auditoriums for the Deployment of Augmented Reality Systems for Enhanced Show Experience of Impaired Persons. <i>Proceedings (mdpi)</i> , 2019, 42, .	0.2	2
36	Multi-Level Internet of Things Communication Strategy for Microgrid Smart Network. <i>Proceedings (mdpi)</i> , 2019, 42, .	0.2	0

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37	Characterization of Near-Ground Radio Propagation Channel for Wireless Sensor Network with Application in Smart Agriculture. Proceedings (mdpi), 2018, 2, 110.	0.2	2
38	Integration of Autonomous Wireless Sensor Networks in Academic School Gardens. Sensors, 2018, 18, 3621.	2.1	8
39	Narrowband Characterization of Near-Ground Radio Channel for Wireless Sensors Networks at 5G-IoT Bands. Sensors, 2018, 18, 2428.	2.1	25
40	Wireless System Integration to Enable Smart Cities and Smart Regions. Proceedings (mdpi), 2018, 2, 109.	0.2	0
41	Implementation and Operational Analysis of an Interactive Intensive Care Unit within a Smart Health Context. Sensors, 2018, 18, 389.	2.1	15
42	Deterministic Propagation Modeling for Intelligent Vehicle Communication in Smart Cities. Sensors, 2018, 18, 2133.	2.1	10
43	Performance Evaluation and Interference Characterization of Wireless Sensor Networks for Complex High-Node Density Scenarios. Proceedings (mdpi), 2018, 4, .	0.2	0
44	Radio Channel Characterization in Dense Forest Environments for IoT-5G. Proceedings (mdpi), 2018, 4, .	0.2	2
45	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
46	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
47	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
48	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
49	SesToCross: Semantic Expert System to Manage Single-Lane Road Crossing. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 1221-1233.	4.7	9
50	Spatial Characterization of Radio Propagation Channel in Urban Vehicle-to-Infrastructure Environments to Support WSNs Deployment. Sensors, 2017, 17, 1313.	2.1	19
51	Challenges in Wireless System Integration as Enablers for Indoor Context Aware Environments. Sensors, 2017, 17, 1616.	2.1	8
52	Characterization of Radio Propagation Channel in Urban Vehicle to Infrastructure Environments to Support WSNs. Proceedings (mdpi), 2017, 1, 19.	0.2	2
53	Assessment of ISM 2.4GHz wireless sensor networks performance in urban infrastructure scenarios. , 2017, , .		0
54	Deterministic Propagation Modeling for Intelligent Vehicle Communication in Smart Cities. Proceedings (mdpi), 2017, 2, .	0.2	0

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55	Integration of Autonomous Wireless Sensor Networks in Academic School Gardens. Proceedings (mdpi), 2017, 2, .	0.2	1
56	Implementation and Analysis of ISM 2.4 GHz Wireless Sensor Network Systems in Judo Training Venues. Sensors, 2016, 16, 1247.	2.1	8
57	Implementation of Context Aware e-Health Environments Based on Social Sensor Networks. Sensors, 2016, 16, 310.	2.1	15
58	Evaluation of Deployment Challenges of Wireless Sensor Networks at Signalized Intersections. Sensors, 2016, 16, 1140.	2.1	10
59	Implementation and Analysis of a Wireless Sensor Network-Based Pet Location Monitoring System for Domestic Scenarios. Sensors, 2016, 16, 1384.	2.1	16
60	Implementation of Wireless Sensor Network Architecture for Interactive Shopping Carts to Enable Context-Aware Commercial Areas. IEEE Sensors Journal, 2016, 16, 5416-5425.	2.4	8
61	An accurate UTD extension to a ray-launching algorithm for the analysis of complex indoor radio environments. Journal of Electromagnetic Waves and Applications, 2016, 30, 43-60.	1.0	16
62	Analysis of Wireless Sensor Network performance in urban infrastructure to vehicle scenarios. , 2016, , .		1
63	Analysis of Bluetooth-Based Wireless Sensor Networks Performance in Hospital Environments. Proceedings (mdpi), 2016, 1, .	0.2	3
64	Estimation of Radiofrequency Power Leakage from Microwave Ovens for Dosimetric Assessment at Nonionizing Radiation Exposure Levels. BioMed Research International, 2015, 2015, 1-14.	0.9	22
65	Dosimetric assessment of RadioFrequency power leakage from microwave ovens in complex scenarios. , 2015, , .		1
66	Exposure assessment from s-Health solutions based on WLAN/WBAN systems. , 2015, , .		0
67	Analysis of Wireless Sensor Network Topology and Estimation of Optimal Network Deployment by Deterministic Radio Channel Characterization. Sensors, 2015, 15, 3766-3788.	2.1	14
68	Radio Characterization for ISM 2.4 GHz Wireless Sensor Networks for Judo Monitoring Applications. Sensors, 2014, 14, 24004-24028.	2.1	6
69	Analysis of Radio Wave Propagation for ISM 2.4 GHz Wireless Sensor Networks in Inhomogeneous Vegetation Environments. Sensors, 2014, 14, 23650-23672.	2.1	16
70	Characterization of wireless channel response in in-vehicle environments. , 2014, , .		2
71	Channel characterization in indoor wireless sensor network deployment in commercial environment. , 2014, , .		0
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