

# Hicham Klaina

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

764  
citations

516710

16  
h-index

610901

24  
g-index

72  
all docs

72  
docs citations

72  
times ranked

769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Experimental Validation of a LoRaWAN Fog Computing Based Architecture for IoT Enabled Smart Campus Applications. <i>Sensors</i> , 2019, 19, 3287.	3.8	51
2	Design, Implementation, and Empirical Validation of an IoT Smart Irrigation System for Fog Computing Applications Based on LoRa and LoRaWAN Sensor Nodes. <i>Sensors</i> , 2020, 20, 6865.	3.8	46
3	Optimized Wireless Channel Characterization in Large Complex Environments by Hybrid Ray Launching-Collaborative Filtering Approach. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 780-783.	4.0	43
4	Design and Implementation of Context Aware Applications With Wireless Sensor Network Support in Urban Train Transportation Environments. <i>IEEE Sensors Journal</i> , 2017, 17, 169-178.	4.7	39
5	Aggregator to Electric Vehicle LoRaWAN Based Communication Analysis in Vehicle-to-Grid Systems in Smart Cities. <i>IEEE Access</i> , 2020, 8, 124688-124701.	4.2	33
6	Impact of Body Wearable Sensor Positions on UWB Ranging. <i>IEEE Sensors Journal</i> , 2019, 19, 11449-11457.	4.7	31
7	Towards Sub-Meter Level UWB Indoor Localization Using Body Wearable Sensors. <i>IEEE Access</i> , 2020, 8, 178886-178899.	4.2	26
8	Narrowband Characterization of Near-Ground Radio Channel for Wireless Sensors Networks at 5G-IoT Bands. <i>Sensors</i> , 2018, 18, 2428.	3.8	25
9	Estimation of Radiofrequency Power Leakage from Microwave Ovens for Dosimetric Assessment at Nonionizing Radiation Exposure Levels. <i>BioMed Research International</i> , 2015, 2015, 1-14.	1.9	22
10	Spatial Characterization of Personal RF-EMF Exposure in Public Transportation Buses. <i>IEEE Access</i> , 2019, 7, 33038-33054.	4.2	22
11	Analysis of low power wide area network wireless technologies in smart agriculture for large-scale farm monitoring and tractor communications. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 187, 110231.	5.0	22
12	Design and Empirical Validation of a LoRaWAN IoT Smart Irrigation System. <i>Proceedings (mdpi)</i> , 2020, 42, .	0.2	21
13	Spatial Characterization of Radio Propagation Channel in Urban Vehicle-to-Infrastructure Environments to Support WSNs Deployment. <i>Sensors</i> , 2017, 17, 1313.	3.8	19
14	Fifth-Generation (5G) mmWave Spatial Channel Characterization for Urban Environmentsâ€™ System Analysis. <i>Sensors</i> , 2020, 20, 5360.	3.8	19
15	Enabling Customizable Services for Multimodal Smart Mobility With City-Platforms. <i>IEEE Access</i> , 2021, 9, 41628-41646.	4.2	17
16	Analysis of Radio Wave Propagation for ISM 2.4 GHz Wireless Sensor Networks in Inhomogeneous Vegetation Environments. <i>Sensors</i> , 2014, 14, 23650-23672.	3.8	16
17	Implementation and Analysis of a Wireless Sensor Network-Based Pet Location Monitoring System for Domestic Scenarios. <i>Sensors</i> , 2016, 16, 1384.	3.8	16
18	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.	1.6	16

#	ARTICLE	IF	CITATIONS
19	A Radio Channel Model for D2D Communications Blocked by Single Trees in Forest Environments. <i>Sensors</i> , 2019, 19, 4606.	3.8	16
20	Implementation of Context Aware e-Health Environments Based on Social Sensor Networks. <i>Sensors</i> , 2016, 16, 310.	3.8	15
21	Optimization and Design of Wireless Systems for the Implementation of Context Aware Scenarios in Railway Passenger Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 2838-2850.	8.0	15
22	Influence of meshing adaption in convergence performance of deterministic ray launching estimation in indoor scenarios. <i>Journal of Electromagnetic Waves and Applications</i> , 2017, 31, 544-559.	1.6	15
23	Implementation and Operational Analysis of an Interactive Intensive Care Unit within a Smart Health Context. <i>Sensors</i> , 2018, 18, 389.	3.8	15
24	Radio Wave Propagation and WSN Deployment in Complex Utility Tunnel Environments. <i>Sensors</i> , 2020, 20, 6710.	3.8	15
25	Building Decentralized Fog Computing-Based Smart Parking Systems: From Deterministic Propagation Modeling to Practical Deployment. <i>IEEE Access</i> , 2020, 8, 117666-117688.	4.2	15
26	Analysis of Wireless Sensor Network Topology and Estimation of Optimal Network Deployment by Deterministic Radio Channel Characterization. <i>Sensors</i> , 2015, 15, 3766-3788.	3.8	14
27	Evaluation of Deployment Challenges of Wireless Sensor Networks at Signalized Intersections. <i>Sensors</i> , 2016, 16, 1140.	3.8	10
28	Deterministic Propagation Modeling for Intelligent Vehicle Communication in Smart Cities. <i>Sensors</i> , 2018, 18, 2133.	3.8	10
29	Deterministic 3D Ray-Launching Millimeter Wave Channel Characterization for Vehicular Communications in Urban Environments. <i>Sensors</i> , 2020, 20, 5284.	3.8	10
30	Implementation of an Interactive Environment With Multilevel Wireless Links for Distributed Botanical Garden in University Campus. <i>IEEE Access</i> , 2020, 8, 132382-132396.	4.2	10
31	SesToCross: Semantic Expert System to Manage Single-Lane Road Crossing. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 1221-1233.	8.0	9
32	Deterministic and Empirical Approach for Millimeter-Wave Complex Outdoor Smart Parking Solution Deployments. <i>Sensors</i> , 2021, 21, 4112.	3.8	9
33	Implementation and Analysis of ISM 2.4 GHz Wireless Sensor Network Systems in Judo Training Venues. <i>Sensors</i> , 2016, 16, 1247.	3.8	8
34	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.	4.7	8
35	Challenges in Wireless System Integration as Enablers for Indoor Context Aware Environments. <i>Sensors</i> , 2017, 17, 1616.	3.8	8
36	Integration of Autonomous Wireless Sensor Networks in Academic School Gardens. <i>Sensors</i> , 2018, 18, 3621.	3.8	8

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37	Patient Tracking in a Multi-Building, Tunnel-Connected Hospital Complex. IEEE Sensors Journal, 2020, 20, 14453-14464.	4.7	8
38	Performance Evaluation and Interference Characterization of Wireless Sensor Networks for Complex High-Node Density Scenarios. Sensors, 2019, 19, 3516.	3.8	7
39	Radio Characterization for ISM 2.4 GHz Wireless Sensor Networks for Judo Monitoring Applications. Sensors, 2014, 14, 24004-24028.	3.8	6
40	Wireless Characterization and Assessment of an UWB-Based System in Industrial Environments. IEEE Access, 2021, 9, 107824-107841.	4.2	6
41	A 3D Ray Launching Time-Frequency Channel Modeling Approach for UWB Ranging Applications. IEEE Access, 2020, 8, 97321-97334.	4.2	5
42	Implementation of Radiating Elements for Radiofrequency Front-Ends by Screen-Printing Techniques for Internet of Things Applications. Sensors, 2019, 19, 3626.	3.8	4
43	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.	4.2	4
44	Analysis of Bluetooth-Based Wireless Sensor Networks Performance in Hospital Environments. Proceedings (mdpi), 2016, 1, .	0.2	3
45	Millimeter Wave Spatial Channel Characterization for Vehicular Communications. Proceedings (mdpi), 2020, 42, 64.	0.2	3
46	Towards Environmental RF-EMF Assessment of mmWave High-Node Density Complex Heterogeneous Environments. Sensors, 2021, 21, 8419.	3.8	3
47	Characterization of wireless channel response in in-vehicle environments. , 2014, , .		2
48	Characterization of Radio Propagation Channel in Urban Vehicle to Infrastructure Environments to Support WSNs. Proceedings (mdpi), 2017, 1, 19.	0.2	2
49	Characterization of Near-Ground Radio Propagation Channel for Wireless Sensor Network with Application in Smart Agriculture. Proceedings (mdpi), 2018, 2, 110.	0.2	2
50	Analysis, Design and Empirical Validation of a Smart Campus Based on LoRaWAN. Proceedings (mdpi), 2019, 4, 7.	0.2	2
51	Radio Channel Characterization in Dense Forest Environments for IoT-5G. Proceedings (mdpi), 2018, 4, .	0.2	2
52	IoT Enabled Low Cost Distributed Angle Measurement Fault Detection System for LFR Plants. IEEE Sensors Journal, 2021, 21, 24855-24868.	4.7	2
53	Wireless Channel Assessment of Auditoriums for the Deployment of Augmented Reality Systems for Enhanced Show Experience of Impaired Persons. Proceedings (mdpi), 2019, 42, .	0.2	2
54	Deterministic Radio Channel Characterization for Near-Ground Wireless Sensor Networks Deployment Optimization in Smart Agriculture. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
55	Dosimetric assessment of RadioFrequency power leakage from microwave ovens in complex scenarios. , 2015, , .		1
56	Analysis of Wireless Sensor Network performance in urban infrastructure to vehicle scenarios. , 2016, , .		1
57	Integration of Autonomous Wireless Sensor Networks in Academic School Gardens. Proceedings (mdpi), 2017, 2, .	0.2	1
58	Analysis and Design of IoT-Enabled, Low-Cost Distributed Angle Measurement System. Proceedings (mdpi), 2020, 42, 58.	0.2	1
59	Implementation of a WSN-Based IIoT Monitoring System within the Workshop of a Solar Protection Curtains Company. , 2020, 2, .		1
60	Channel characterization in indoor wireless sensor network deployment in commercial environment. , 2014, , .		0
61	Exposure assessment from s-Health solutions based on WLAN/WBAN systems. , 2015, , .		0
62	Assessment of ISM 2.4GHz wireless sensor networks performance in urban infrastructure scenarios. , 2017, , .		0
63	Deterministic Propagation Modeling for Intelligent Vehicle Communication in Smart Cities. Proceedings (mdpi), 2017, 2, .	0.2	0
64	Wireless System Integration to Enable Smart Cities and Smart Regions. Proceedings (mdpi), 2018, 2, 109.	0.2	0
65	Circuit Optimization and Analysis for Compatibility Assessment in Integrated Product Design. , 2019, , .		0
66	Performance Evaluation and Interference Characterization of Wireless Sensor Networks for Complex High-Node Density Scenarios. Proceedings (mdpi), 2018, 4, .	0.2	0
67	Intra-Train Connectivity Analysis to Enable Context Aware Passenger Environments. , 2019, , .		0
68	Analysis of Phase Evolution Impact in SIMO Operation in Distributed Transceiver Systems. , 2020, , .		0
69	Wireless Channel Characterization and System Analysis of Complex Utility Tunnel Environments. Proceedings (mdpi), 2020, 42, 53.	0.2	0
70	Multi-Level Internet of Things Communication Strategy for Microgrid Smart Network. Proceedings (mdpi), 2019, 42, .	0.2	0
71	Errealitate areagotuko sistema baten diseinu eta balioztatze esperimentalaren haririk gabeko integrazioarekin, auditoriumetan desgaitasuna pairatzen duten pertsonen esperientzia hobetzeko. , 0, , .		0
72	Deterministic Propagation Approach for Millimeter Wave Outdoor Smart Parking Solution Deployment. , 2020, 2, .		0