

Ivanovitch Silva

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

1,201
citations

623734

14
h-index

454955

30
g-index

73
all docs

73
docs citations

73
times ranked

1122
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliability and Availability Evaluation of Wireless Sensor Networks for Industrial Applications. Sensors, 2012, 12, 806-838.	3.8	159
2	Accelerometer-Based Human Fall Detection Using Convolutional Neural Networks. Sensors, 2019, 19, 1644.	3.8	157
3	A dependability evaluation tool for the Internet of Things. Computers and Electrical Engineering, 2013, 39, 2005-2018.	4.8	64
4	Routing and Scheduling Algorithms for WirelessHART Networks: A Survey. Sensors, 2015, 15, 9703-9740.	3.8	61
5	Availability Issues in Wireless Visual Sensor Networks. Sensors, 2014, 14, 2795-2821.	3.8	47
6	A dependability evaluation for Internet of Things incorporating redundancy aspects. , 2014, , .		44
7	Predictive Models for Imbalanced Data: A School Dropout Perspective. Education Sciences, 2019, 9, 275.	2.6	39
8	A Customer Feedback Platform for Vehicle Manufacturing Compliant with Industry 4.0 Vision. Sensors, 2018, 18, 3298.	3.8	37
9	On the Use of LoRaWAN for the Monitoring and Control of Distributed Energy Resources in a Smart Campus. Applied Sciences (Switzerland), 2020, 10, 320.	2.5	32
10	An Evolving TinyML Compression Algorithm for IoT Environments Based on Data Eccentricity. Sensors, 2021, 21, 4153.	3.8	31
11	A Crowdsensing Platform for Monitoring of Vehicular Emissions: A Smart City Perspective. Future Internet, 2019, 11, 13.	3.8	29
12	A TinyML Soft-Sensor Approach for Low-Cost Detection and Monitoring of Vehicular Emissions. Sensors, 2022, 22, 3838.	3.8	25
13	Latency evaluation for MQTT and WebSocket Protocols: an Industry 4.0 perspective. , 2018, , .		22
14	Performance evaluation of WirelessHART networks using a new network simulator 3 module. Computers and Electrical Engineering, 2015, 41, 325-341.	4.8	21
15	Selecting redundant nodes when addressing availability in wireless visual sensor networks. , 2014, , .		20
16	Performance evaluation of a compression algorithm for wireless sensor networks in monitoring applications. , 2008, , .		19
17	Enhanced flexible LoRaWAN node for industrial IoT. , 2018, , .		18
18	Extracting Value from Industrial Alarms and Events: A Data-Driven Approach Based on Exploratory Data Analysis. Sensors, 2019, 19, 2772.	3.8	16

#	ARTICLE	IF	CITATIONS
19	COVID-19: A scholarly production dataset report for research analysis. <i>Data in Brief</i> , 2020, 32, 106178.	1.0	16
20	A Survey of Technologies and Recent Developments for Sustainable Smart Cycling. <i>Sustainability</i> , 2021, 13, 3422.	3.2	16
21	An Unsupervised TinyML Approach Applied for Pavement Anomalies Detection Under the Internet of Intelligent Vehicles. , 2021, , .		16
22	CitySpeed: A Crowdsensing-Based Integrated Platform for General-Purpose Monitoring of Vehicular Speeds in Smart Cities. <i>Smart Cities</i> , 2019, 2, 46-65.	9.4	15
23	A Comparison of Machine Learning Approaches for Detecting Misogynistic Speech in Urban Dictionary. , 2019, , .		15
24	Evaluating Social Distancing Measures and Their Association with the Covid-19 Pandemic in South America. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 121.	2.9	14
25	An Effective Extension of Anti-Collision Protocol for RFID in the Industrial Internet of Things (IIoT). <i>Sensors</i> , 2018, 18, 4426.	3.8	13
26	Availability assessment of wireless visual sensor networks for target coverage. , 2014, , .		11
27	Assessment of WirelessHART networks in closed-loop control system. , 2015, , .		11
28	Performance Evaluation of an Edge OBD-II Device for Industry 4.0. , 2019, , .		11
29	A method for detecting causal relationships between industrial alarm variables using Transfer Entropy and K2 algorithm. <i>Journal of Process Control</i> , 2021, 106, 142-154.	3.3	11
30	A Methodology for Dependability Evaluation of Smart Grids. <i>Energies</i> , 2019, 12, 1817.	3.1	10
31	Dataset for country profile and mobility analysis in the assessment of COVID-19 pandemic. <i>Data in Brief</i> , 2020, 31, 105698.	1.0	10
32	On the Use of LoRaWAN and Cloud Platforms for Diversification of Mobility-as-a-Service Infrastructure in Smart City Scenarios. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-9.	4.7	10
33	Towards a WirelessHART module for the ns-3 simulator. , 2010, , .		9
34	Enhancing Redundancy in Wireless Visual Sensor Networks for Target Coverage. , 2014, , .		9
35	Data set for automatic detection of online misogynistic speech. <i>Data in Brief</i> , 2019, 26, 104223.	1.0	9
36	Synthetic image generation for training deep learning-based automated license plate recognition systems on the Brazilian Mercosur standard. <i>Design Automation for Embedded Systems</i> , 2021, 25, 113-133.	1.0	9

#	ARTICLE	IF	CITATIONS
37	#StayHome: Monitoring and benchmarking social isolation trends in Caruaru and the Região Metropolitana do Recife during the COVID-19 pandemic. Revista Da Sociedade Brasileira De Medicina Tropical, 2020, 53, e20200271.	0.9	8
38	Discovering temporal scientometric knowledge in COVID-19 scholarly production. Scientometrics, 2022, 127, 1609-1642.	3.0	8
39	Reliability evaluation of wirelesshart under faulty link scenarios. , 2014, , .		7
40	Optimal sensing redundancy for multiple perspectives of targets in wireless visual sensor networks. , 2015, , .		7
41	Research activities on industrial wireless instrumentation: Brazilian perspective. IEEE Instrumentation and Measurement Magazine, 2017, 20, 21-30.	1.6	7
42	CO ₂ Catcher: A Platform for Monitoring of Vehicular Pollution in Smart Cities. , 2017, , .		7
43	A customer feedback platform for vehicle manufacturing in Industry 4.0. , 2018, , .		7
44	Brazilian Mercosur License Plate Detection: a Deep Learning Approach Relying on Synthetic Imagery. , 2019, , .		7
45	iBikeSafe: A Multi-Parameter System for Monitoring, Evaluation and Visualization of Cycling Paths in Smart Cities Targeted at Cycling Adverse Conditions. Smart Cities, 2021, 4, 1058-1086.	9.4	7
46	Illusion of Truth: Analysing and Classifying COVID-19 Fake News in Brazilian Portuguese Language. Big Data and Cognitive Computing, 2022, 6, 36.	4.7	7
47	A reliability and performance GSPN-Based model for anti-collision RFID algorithms under noisy channels in industrial internet of things. Computers in Industry, 2021, 125, 103381.	9.9	6
48	Towards a customized vehicular maintenance based on 2-layers data-stream application. , 2021, , .		6
49	Artificial Mercosur license plates dataset. Data in Brief, 2020, 33, 106554.	1.0	6
50	Dependability evaluation of WirelessHART best practices. , 2012, , .		5
51	Ontology for computer-aided fault tree synthesis. , 2014, , .		5
52	A Brazilian License Plate Recognition Method for Applications in Smart Cities. , 2017, , .		5
53	A Dependability Evaluation for OBD-II Edge Devices: An Internet of Intelligent Vehicles Perspective. , 2019, , .		5
54	A new AODV-based routing protocol adequate for monitoring applications in oil & gas production environments. , 2010, , .		4

#	ARTICLE	IF	CITATIONS
55	SystemC AMS modeling of a sensor node energy consumption and battery state-of-charge for WSN. , 2015, , .		4
56	Performance Evaluation of an evolving data compression algorithm embedded into an OBD-II edge device. , 2020, , .		4
57	Determination of Dropout Student Profile Based on Correspondence Analysis Technique. IEEE Latin America Transactions, 2019, 17, 1517-1523.	1.6	3
58	Evaluating Human-Machine Translation with Attention Mechanisms for Industry 4.0 Environment SQL-Based Systems. , 2020, , .		3
59	MSensorMob: A Multi-Sensors Hardware Framework to Support the Development of Adaptable Monitoring Units in Mobile Applications. , 2021, , .		3
60	Emerging Technologies for Industrial Wireless Sensor Networks. , 0, , 343-359.		3
61	Preliminary results on the assessment of WirelessHART networks in transient fault scenarios. , 2011, , .		2
62	A Preliminary Exploration of Uber Data as an Indicator of Urban Liveability. , 2019, , .		2
63	Performance evaluation of a vehicular edge device for customer feedback in Industry 4.0. Acta IMEKO (2012), 2020, 9, 88.	0.7	2
64	Performance Evaluation of ISA100.11a Wireless Feedback Control. IFAC-PapersOnLine, 2016, 49, 290-295.	0.9	1
65	LWVNet: an hybrid simulation architecture for wireless sensor networks. Design Automation for Embedded Systems, 2017, 21, 139-155.	1.0	1
66	Implementation of a Dependable Smart Device in IoT Era. , 2019, , .		1
67	On the development of flexible mobile multi-sensor units based on open-source hardware platforms and a reference framework. HardwareX, 2021, 10, e00243.	2.2	1
68	Enabling Interactive Visualizations in Industrial Big Data. IFAC-PapersOnLine, 2020, 53, 11162-11167.	0.9	1
69	A framework for dependability evaluation of industrial processes. , 2013, , .		0
70	A Hybrid Architecture for Experimentation in Wireless Sensor Networks. , 2016, , .		0
71	Analysing Dependability and Performance of a Real-World Elastic Search Application. , 2019, , .		0
72	A Metrological Fuel Surveillance Application Based on Internet of Intelligent Vehicles. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
73	Análise de dados da Uber: um novo olhar sobre a habitabilidade e a mobilidade urbana. , 0, , .		0