

Jorge Sa Silva

List of Publications by Year in descending order

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96
papers

2,646
citations

394421

19
h-index

302126

39
g-index

101
all docs

101
docs citations

101
times ranked

2894
citing authors

#	ARTICLE	IF	CITATIONS
1	Security for the Internet of Things: A Survey of Existing Protocols and Open Research Issues. IEEE Communications Surveys and Tutorials, 2015, 17, 1294-1312.	39.4	834
2	A Survey on Human-in-the-Loop Applications Towards an Internet of All. IEEE Communications Surveys and Tutorials, 2015, 17, 944-965.	39.4	198
3	Mobility in wireless sensor networks – Survey and proposal. Computer Communications, 2014, 52, 1-20.	5.1	139
4	The GINSENG system for wireless monitoring and control. ACM Transactions on Sensor Networks, 2013, 10, 1-40.	3.6	93
5	A Survey of IoT Management Protocols and Frameworks. IEEE Communications Surveys and Tutorials, 2020, 22, 1168-1190.	39.4	88
6	Security in the integration of low-power Wireless Sensor Networks with the Internet: A survey. Ad Hoc Networks, 2015, 24, 264-287.	5.5	79
7	Industrial IoT Monitoring: Technologies and Architecture Proposal. Sensors, 2018, 18, 3568.	3.8	59
8	GENSEN: A Topology Generator for Real Wireless Sensor Networks Deployment. Lecture Notes in Computer Science, 2007, , 436-445.	1.3	47
9	Enabling Network-Layer Security on IPv6 Wireless Sensor Networks. , 2010, , .		43
10	Why is IPSec a viable option for wireless sensor networks. , 2008, , .		39
11	Network-layer security for the Internet of Things using TinyOS and BLIP. International Journal of Communication Systems, 2014, 27, 1938-1963.	2.5	37
12	A Taxonomy of Faults for Wireless Sensor Networks. Journal of Network and Systems Management, 2017, 25, 591-611.	4.9	33
13	A proposal for proxy-based mobility in WSNs. Computer Communications, 2012, 35, 1200-1216.	5.1	32
14	A Solution for Dynamic Management of User Profiles in IoT Environments. IEEE Latin America Transactions, 2020, 18, 1193-1199.	1.6	32
15	IoT architecture proposal for disabled people. , 2014, , .		30
16	Industry 4.0 Retrofitting. , 2018, , .		30
17	On the Effectiveness of End-to-End Security for Internet-Integrated Sensing Applications. , 2012, , .		29
18	Mobility in WSNs for critical applications. , 2011, , .		27

#	ARTICLE	IF	CITATIONS
19	IoT Registration and Authentication in Smart City Applications with Blockchain. Sensors, 2021, 21, 1323.	3.8	27
20	Mobile IP-Based Protocol for Wireless Personal Area Networks in Critical Environments. Wireless Personal Communications, 2011, 61, 711-737.	2.7	24
21	Application-Layer Security for the WoT: Extending CoAP to Support End-to-End Message Security for Internet-Integrated Sensing Applications. Lecture Notes in Computer Science, 2013, , 140-153.	1.3	24
22	DynMAC: A resistant MAC protocol to coexistence in wireless sensor networks. Computer Networks, 2015, 76, 1-16.	5.1	23
23	People-Centric Internet of Things. , 2017, 55, 18-19.		23
24	PRISER: Managing Notification in Multiples Devices with Data Privacy Support. Sensors, 2019, 19, 3098.	3.8	23
25	Mobility solutions for wireless sensor and actuator networks with performance guarantees. , 2011, , .		22
26	A secure interconnection model for IPv6 enabled wireless sensor networks. , 2010, , .		20
27	Diagnostic Tools for Wireless Sensor Networks: A Comparative Survey. Journal of Network and Systems Management, 2013, 21, 408-452.	4.9	20
28	Robust dynamic user authentication scheme for wireless sensor networks. , 2009, , .		19
29	Mobility management in IP-based Wireless Sensor Networks. , 2008, , .		15
30	An Outlook on Physical and Virtual Sensors for a Socially Interactive Internet. Sensors, 2018, 18, 2578.	3.8	14
31	6GLAD: IPv6 Global to Link-layer ADdress Translation for 6LoWPAN Overhead Reducing. , 2008, , .		12
32	A new approach for multi-sink environments in WSNs. , 2009, , .		12
33	Characteristics of Channels of IEEE 802.15.4 Compliant Sensor Networks. Wireless Personal Communications, 2012, 67, 541-556.	2.7	12
34	Assessing Redundancy Models for IoT Reliability. , 2018, , .		12
35	End-to-end experimentation of a 5G vertical within the scope of blended learning. Discover Internet of Things, 2021, 1, 1.	4.8	12
36	IP in wireless sensor networks Issues and lessons learnt. , 2008, , .		11

#	ARTICLE	IF	CITATIONS
37	Mobile multimedia in wireless sensor networks. International Journal of Sensor Networks, 2012, 11, 3.	0.4	11
38	WSN evaluation in industrial environments first results and lessons learned. , 2011, , .		10
39	A framework for cognitive radio wireless sensor networks. , 2012, , .		10
40	Wearable Edge AI Applications for Ecological Environments. Sensors, 2021, 21, 5082.	3.8	10
41	Data Transmission Performance Analysis with Smart Grid Protocol and Cryptography Algorithms. , 2018, , .		9
42	On the feasibility of secure application-layer communications on the Web of Things. , 2012, , .		8
43	A framework for Wireless Sensor Networks performance monitoring. , 2012, , .		8
44	A scalable localization system for critical controlled wireless sensor networks. , 2014, , .		8
45	A symbiotic resources sharing IoT platform in the smart cities context. , 2015, , .		8
46	Information and Assisted Navigation System for Blind People. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 1-4.	0.7	8
47	iSeniorâ€™A Support System for Elderly Citizens. IEEE Transactions on Emerging Topics in Computing, 2013, 1, 207-217.	4.6	7
48	Low-Energy Smart Cities Network with LoRa and Bluetooth. , 2019, , .		7
49	Performance Control in Wireless Sensor Networks. , 2009, , .		6
50	Wireless Sensor Networks in Intensive Care Units. , 2009, , .		6
51	A Web Service-Based Framework Model for People-Centric Sensing Applications Applied to Social Networking. Sensors, 2012, 12, 1688-1701.	3.8	6
52	Opportunistic fog computing: Feasibility assessment and architectural proposal. , 2017, , .		6
53	Reliable Link Level Routing Algorithm in Pipeline Monitoring Using Implicit Acknowledgements. Sensors, 2021, 21, 968.	3.8	6
54	A comparison of approaches to node and service discovery in 6lowPAN wireless sensor networks. , 2009, , .		5

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55	A Proxy-Based Mobility Solution for Critical WSN Applications. , 2010, , .		5
56	Hermes: A versatile platform for wireless embedded systems. , 2012, , .		5
57	Happy hour - improving mood with an emotionally aware application. , 2015, , .		5
58	Towards Effective IoT Management. , 2018, , .		5
59	A Privacy-Aware Framework Integration into a Human-in-the-Loop IoT System. , 2021, , .		5
60	Why should multicast be used in WSNs. , 2008, , .		4
61	Wireless sensors and mobile phones for human well-being. , 2017, , .		4
62	Securing WirelessHART: Monitoring, Exploring and Detecting New Vulnerabilities. , 2018, , .		4
63	An Online Platform For Real-Time Air Quality Monitoring. , 2019, , .		4
64	A Hybrid Application for Real-Time Air Quality Monitoring. , 2019, , .		4
65	An Approach to the Unified Management of Heterogeneous IoT Environments. IEEE Internet of Things Journal, 2021, 8, 6916-6927.	8.7	4
66	The Cost of Using IEEE 802.16d Dynamic Channel Configuration. , 2008, , .		3
67	A Taxonomy of Wireless Sensor Networks with QoS. , 2011, , .		3
68	Infrastructure-supported mobility in wireless sensor networks " A case study. , 2015, , .		3
69	FoTSeC " Human Security in Fog of Things. , 2016, , .		3
70	Human-in-the-loop Connectivity Management in Smartphones. Lecture Notes in Computer Science, 2016, , 159-170.	1.3	3
71	Security and Fault Detection in In-node components of IIoT Constrained Devices. , 2019, , .		3
72	Analysis of Student Academic Performance Using Human-in-the-Loop Cyber-Physical Systems. Telecom, 2020, 1, 18-31.	2.6	3

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73	Security Issues and Approaches on Wireless M2M Systems. Signals and Communication Technology, 2013, , 133-164.	0.5	3
74	NanoSen-AQM: From Sensors to Users. International Journal of Online and Biomedical Engineering, 2020, 16, 51.	1.4	3
75	EuQoS approach for resource allocation in Ethernet networks. International Journal of Network Management, 2007, 17, 373-388.	2.2	2
76	An architecture for emotional smartphones in Internet of Things. , 2016, , .		2
77	An autonomous diagnostic tool for the WirelessHART industrial standard. , 2016, , .		2
78	A Qualitative Study on Trust Perception in IoT Mobile Applications. , 2020, , .		2
79	An Automated Application-Independent Approach to Anomaly Detection in Wireless Sensor Networks. Lecture Notes in Computer Science, 2014, , 1-14.	1.3	2
80	WSNs in FIWARE “ Towards the Development of People-Centric Applications. Communications in Computer and Information Science, 2017, , 445-456.	0.5	2
81	iHorse — A WSN-based equine monitoring system. , 2011, , .		1
82	Navigation architecture for mobile robots with temporal stabilization of movements. , 2013, , .		1
83	New mechanisms for privacy in human-in-the-loop cyber-physical systems. , 2015, , .		1
84	Automatic allocation of identifiers in linear wireless sensor networks using link-level processes. , 2016, , .		1
85	A data fusion protocol for WSN performance and data retrieval. , 2016, , .		1
86	Special issue on management of <scp>IoT</scp>. International Journal of Network Management, 2018, 28, e2032.	2.2	1
87	A Unified Solution for IoT Device Management. , 2019, , .		1
88	Exploring Approaches to the Management of Physical, Virtual, and Social Sensors. , 2020, , .		1
89	NSIS-Based Quality of Service and Resource Allocation in Ethernet Networks. Lecture Notes in Computer Science, 2006, , 132-142.	1.3	1
90	Tech4SocialChange: Technology for All. Communications in Computer and Information Science, 2016, , 153-169.	0.5	1

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91	The use of COPS and NSIS in the EuQoS Project. , 2005, , 159-171.		1
92	Wireless sensor networks to support elementary school learning activities. Proceedings of the International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing, 2009, , .	0.0	0
93	A Framework for Integrating WSNs and External Environments. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 383-389.	0.4	0
94	Ethernet Access Networks Resources Sharing from a Signalling Perspective. , 2011, , .		0
95	Achieving Human-Aware Seamless Handoff. , 2015, , .		0
96	Algorithm and Distributed Computing for the Internet of Things. Sensors, 2020, 20, 4513.	3.8	0