

Alvaro Araujo

List of Publications by Year in descending order

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55
papers

824
citations

623734

14
h-index

526287

27
g-index

57
all docs

57
docs citations

57
times ranked

929
citing authors

#	ARTICLE	IF	CITATIONS
1	A Project-Based Learning Approach to Design Electronic Systems Curricula. IEEE Transactions on Education, 2006, 49, 389-397.	2.4	120
2	Navigation Systems for the Blind and Visually Impaired: Past Work, Challenges, and Open Problems. Sensors, 2019, 19, 3404.	3.8	110
3	Forest Monitoring and Wildland Early Fire Detection by a Hierarchical Wireless Sensor Network. Journal of Sensors, 2016, 2016, 1-8.	1.1	89
4	Wireless Measurement System for Structural Health Monitoring With High Time-Synchronization Accuracy. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 801-810.	4.7	86
5	Security in cognitive wireless sensor networks. Challenges and open problems. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	39
6	Improving Security for SCADA Sensor Networks with Reputation Systems and Self-Organizing Maps. Sensors, 2009, 9, 9380-9397.	3.8	30
7	Performance of clock sources and their influence on time synchronization in wireless sensor networks. International Journal of Distributed Sensor Networks, 2019, 15, 155014771987937.	2.2	28
8	Distributed intrusion detection system for wireless sensor networks based on a reputation system coupled with kernel self-organizing maps. Integrated Computer-Aided Engineering, 2010, 17, 87-102.	4.6	21
9	Edge and Fog Computing Platform for Data Fusion of Complex Heterogeneous Sensors. Sensors, 2018, 18, 3630.	3.8	21
10	Gated Recurrent Unit Neural Networks for Automatic Modulation Classification With Resource-Constrained End-Devices. IEEE Access, 2020, 8, 112783-112794.	4.2	20
11	Improving security in WMNs with reputation systems and self-organizing maps. Journal of Network and Computer Applications, 2011, 34, 455-463.	9.1	18
12	Process Management in IoT Operating Systems: Cross-Influence between Processing and Communication Tasks in End-Devices. Sensors, 2019, 19, 805.	3.8	18
13	Adaptive Body Area Networks Using Kinematics and Biosignals. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 623-633.	6.3	17
14	A Methodology for Choosing Time Synchronization Strategies for Wireless IoT Networks. Sensors, 2019, 19, 3476.	3.8	15
15	Using Reputation Systems and Non-Deterministic Routing to Secure Wireless Sensor Networks. Sensors, 2009, 9, 3958-3980.	3.8	13
16	A Security Scheme for Wireless Sensor Networks. , 2016, , .		12
17	PUE attack detection in CWSNs using anomaly detection techniques. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	11
18	A WSN-Based Intrusion Alarm System to Improve Safety in Road Work Zones. Journal of Sensors, 2016, 2016, 1-8.	1.1	10

#	ARTICLE	IF	CITATIONS
19	Bio-inspired enhancement of reputation systems for intelligent environments. Information Sciences, 2013, 222, 99-112.	6.9	9
20	A Game Theory Based Strategy for Reducing Energy Consumption in Cognitive WSN. International Journal of Distributed Sensor Networks, 2014, 10, 965495.	2.2	9
21	Experimental Evaluation of an RSSI-Based Localization Algorithm on IoT End-Devices. Sensors, 2019, 19, 3931.	3.8	9
22	VES: A Mixed-Reality System to Assist Multisensory Spatial Perception and Cognition for Blind and Visually Impaired People. Applied Sciences (Switzerland), 2020, 10, 523.	2.5	9
23	Methods for Lowering the Power Consumption of OS-Based Adaptive Deep Brain Stimulation Controllers. Sensors, 2021, 21, 2349.	3.8	8
24	A Methodology for Developing Accessible Mobile Platforms over Leading Devices for Visually Impaired People. Lecture Notes in Computer Science, 2011, , 209-215.	1.3	8
25	An Application-Aware Clustering Protocol for Wireless Sensor Networks to Provide QoS Management. Journal of Sensors, 2019, 2019, 1-11.	1.1	7
26	An adaptive energy aware strategy based on game theory to add privacy in the physical layer for cognitive WSNs. Ad Hoc Networks, 2019, 92, 101800.	5.5	7
27	Simulation framework for security threats in cognitive radio networks. IET Communications, 2012, 6, 984.	2.2	6
28	An Adaptive Scheduler for Real-Time Operating Systems to Extend WSN Nodes Lifetime. Wireless Communications and Mobile Computing, 2018, 2018, 1-10.	1.2	6
29	MIGOU: A Low-Power Experimental Platform with Programmable Logic Resources and Software-Defined Radio Capabilities. Sensors, 2019, 19, 4983.	3.8	6
30	Artificial noise scheme to ensure secure communications in CWSN. , 2012, , .		5
31	Energy Efficiency Strategy in D2D Cognitive Networks Using Channel Selection Based on Game Theory and Collaboration. International Journal of Distributed Sensor Networks, 2016, 12, 2834652.	2.2	5
32	Analyzing the Performance of WBAN Links during Physical Activity Using Real Multi-Band Sensor Nodes. Applied Sciences (Switzerland), 2021, 11, 2920.	2.5	5
33	SORU: A Reconfigurable Vector Unit for Adaptable Embedded Systems. Lecture Notes in Computer Science, 2009, , 255-260.	1.3	5
34	Image Processing Based Services for Ambient Assistant Scenarios. Lecture Notes in Computer Science, 2009, , 800-807.	1.3	5
35	Eliminating routing protocol anomalies in wireless sensor networks using AI techniques. , 2010, , .		5
36	Intrusion Detection in Sensor Networks Using Clustering and Immune Systems. Lecture Notes in Computer Science, 2009, , 408-415.	1.3	3

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37	YetiOS: an Adaptive Operating System for Wireless Sensor Networks. , 2018, , .		3
38	VES: A Mixed-Reality Development Platform of Navigation Systems for Blind and Visually Impaired. Sensors, 2021, 21, 6275.	3.8	3
39	Adaptive frequency scaling strategy to improve energy efficiency in a tick-less Operating System for resource-constrained embedded devices. Future Generation Computer Systems, 2021, 124, 230-242.	7.5	3
40	Low-Cost Gesture-Based Interaction for Intelligent Environments. Lecture Notes in Computer Science, 2009, , 752-755.	1.3	3
41	PUE Attack Detection in CWSN Using Collaboration and Learning Behavior. International Journal of Distributed Sensor Networks, 2013, 9, 815959.	2.2	2
42	Cognitive Wireless Sensor Network Platform for Cooperative Communications. International Journal of Distributed Sensor Networks, 2014, 10, 473905.	2.2	2
43	Cognitive test-bed for wireless sensor networks. , 2014, , .		2
44	Modular Framework for Smart Home Applications. Lecture Notes in Computer Science, 2009, , 695-701.	1.3	2
45	Dynamic environment evaluation for reliable Aml applications based on untrusted sensor. , 2007, , .		1
46	Using clustering techniques for intelligent camera-based user interfaces. Logic Journal of the IGPL, 2012, 20, 589-597.	1.5	1
47	Autonomous Active Tag Using Energy Harvesting Strategies. Applied Sciences (Switzerland), 2020, 10, 5260.	2.5	1
48	CAN Implementation and Performance for Raman Laser Spectrometer (RLS) Instrument on Exomars 2020 Mission. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 67-77.	4.6	1
49	Using Self-Organizing Maps for Intelligent Camera-Based User Interfaces. Lecture Notes in Computer Science, 2010, , 486-492.	1.3	1
50	Cognitive Wireless Sensor Network Device for AAL Scenarios. Lecture Notes in Computer Science, 2011, , 116-121.	1.3	1
51	Evaluation, Energy Optimization, and Spectrum Analysis of an Artificial Noise Technique to Improve CWSN Security. International Journal of Distributed Sensor Networks, 2013, 9, 834547.	2.2	0
52	Controlling the degradation of Wireless Sensor Networks. , 2015, , .		0
53	A Scalable Security Framework for Reliable Aml Applications Based on Untrusted Sensors. Lecture Notes in Computer Science, 2009, , 73-84.	1.3	0
54	Image Processing Algorithms for AAL Services. Lecture Notes in Computer Science, 2011, , 201-208.	1.3	0

#	ARTICLE	IF	CITATIONS
55	Low power wearable device for elderly people monitoring. , 2018, , .		0