Alvaro Araujo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2045269/publications.pdf

Version: 2024-02-01

55	824	623734	526287
papers	citations	14 h-index	27 g-index

57	57	57	929
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive Body Area Networks Using Kinematics and Biosignals. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 623-633.	6.3	17
2	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
3	Analyzing the Performance of WBAN Links during Physical Activity Using Real Multi-Band Sensor Nodes. Applied Sciences (Switzerland), 2021, 11, 2920.	2.5	5
4	Methods for Lowering the Power Consumption of OS-Based Adaptive Deep Brain Stimulation Controllers. Sensors, 2021, 21, 2349.	3.8	8
5	VES: A Mixed-Reality Development Platform of Navigation Systems for Blind and Visually Impaired. Sensors, 2021, 21, 6275.	3.8	3
6	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
7	Autonomous Active Tag Using Energy Harvesting Strategies. Applied Sciences (Switzerland), 2020, 10, 5260.	2.5	1
8	Gated Recurrent Unit Neural Networks for Automatic Modulation Classification With Resource-Constrained End-Devices. IEEE Access, 2020, 8, 112783-112794.	4.2	20
9	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
10	Navigation Systems for the Blind and Visually Impaired: Past Work, Challenges, and Open Problems. Sensors, 2019, 19, 3404.	3.8	110
11	A Methodology for Choosing Time Synchronization Strategies for Wireless IoT Networks. Sensors, 2019, 19, 3476.	3.8	15
12	Experimental Evaluation of an RSSI-Based Localization Algorithm on IoT End-Devices. Sensors, 2019, 19, 3931.	3.8	9
13	An Application-Aware Clustering Protocol for Wireless Sensor Networks to Provide QoS Management. Journal of Sensors, 2019, 2019, 1-11.	1.1	7
14	Process Management in IoT Operating Systems: Cross-Influence between Processing and Communication Tasks in End-Devices. Sensors, 2019, 19, 805.	3.8	18
15	MIGOU: A Low-Power Experimental Platform with Programmable Logic Resources and Software-Defined Radio Capabilities. Sensors, 2019, 19, 4983.	3.8	6
16	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
17	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
18	YetiOS: an Adaptive Operating System for Wireless Sensor Networks. , 2018, , .		3

#	Article	IF	Citations
19	Edge and Fog Computing Platform for Data Fusion of Complex Heterogeneous Sensors. Sensors, 2018, 18, 3630.	3.8	21
20	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
21	Low power wearable device for elderly people monitoring. , 2018, , .		0
22	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
23	A WSN-Based Intrusion Alarm System to Improve Safety in Road Work Zones. Journal of Sensors, 2016, 2016, 1-8.	1.1	10
24	Forest Monitoring and Wildland Early Fire Detection by a Hierarchical Wireless Sensor Network. Journal of Sensors, 2016, 2016, 1-8.	1.1	89
25	A Security Scheme for Wireless Sensor Networks. , 2016, , .		12
26	Controlling the degradation of Wireless Sensor Networks. , 2015, , .		0
27	Cognitive Wireless Sensor Network Platform for Cooperative Communications. International Journal of Distributed Sensor Networks, 2014, 10, 473905.	2.2	2
28	A Game Theory Based Strategy for Reducing Energy Consumption in Cognitive WSN. International Journal of Distributed Sensor Networks, 2014, 10, 965495.	2.2	9
29	Cognitive test-bed for wireless sensor networks. , 2014, , .		2
30	PUE attack detection in CWSNs using anomaly detection techniques. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	11
31	Bio-inspired enhancement of reputation systems for intelligent environments. Information Sciences, 2013, 222, 99-112.	6.9	9
32	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
33	PUE Attack Detection in CWSN Using Collaboration and Learning Behavior. International Journal of Distributed Sensor Networks, 2013, 9, 815959.	2.2	2
34	Using clustering techniques for intelligent camera-based user interfaces. Logic Journal of the IGPL, 2012, 20, 589-597.	1.5	1
35	Simulation framework for security threats in cognitive radio networks. IET Communications, 2012, 6, 984.	2.2	6
36	Artificial noise scheme to ensure secure communications in CWSN. , 2012, , .		5

#	Article	IF	Citations
37	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
38	Security in cognitive wireless sensor networks. Challenges and open problems. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	39
39	Improving security in WMNs with reputation systems and self-organizing maps. Journal of Network and Computer Applications, 2011, 34, 455-463.	9.1	18
40	Cognitive Wireless Sensor Network Device for AAL Scenarios. Lecture Notes in Computer Science, 2011, , 116-121.	1.3	1
41	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
42	Image Processing Algorithms for AAL Services. Lecture Notes in Computer Science, 2011, , 201-208.	1.3	0
43	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
44	Using Self-Organizing Maps for Intelligent Camera-Based User Interfaces. Lecture Notes in Computer Science, 2010, , 486-492.	1.3	1
45	Eliminating routing protocol anomalies in wireless sensor networks using AI techniques. , 2010, , .		5
46	Improving Security for SCADA Sensor Networks with Reputation Systems and Self-Organizing Maps. Sensors, 2009, 9, 9380-9397.	3.8	30
47	Using Reputation Systems and Non-Deterministic Routing to Secure Wireless Sensor Networks. Sensors, 2009, 9, 3958-3980.	3.8	13
48	Intrusion Detection in Sensor Networks Using Clustering and Immune Systems. Lecture Notes in Computer Science, 2009, , 408-415.	1.3	3
49	SORU: A Reconfigurable Vector Unit for Adaptable Embedded Systems. Lecture Notes in Computer Science, 2009, , 255-260.	1.3	5
50	Image Processing Based Services for Ambient Assistant Scenarios. Lecture Notes in Computer Science, 2009, , 800-807.	1.3	5
51	A Scalable Security Framework for Reliable AmI Applications Based on Untrusted Sensors. Lecture Notes in Computer Science, 2009, , 73-84.	1.3	0
52	Modular Framework for Smart Home Applications. Lecture Notes in Computer Science, 2009, , 695-701.	1.3	2
53	Low-Cost Gesture-Based Interaction for Intelligent Environments. Lecture Notes in Computer Science, 2009, , 752-755.	1.3	3
54	Dynamic environment evaluation for reliable AmI applications based on untrusted sensor. , 2007, , .		1

#	Article	IF	Citations
55	A Project-Based Learning Approach to Design Electronic Systems Curricula. IEEE Transactions on Education, 2006, 49, 389-397.	2.4	120