Ãlvaro Sobrinho

List of Publications by Year
in descending order

22 papers	168 citations	1478505 6 h-index	1372567 10 g-index
25 all docs	25 docs citations	25 times ranked	205 citing authors

#	Article	IF	Citations
1	Design of a Home Automation App to Assist Elderly and Limited Mobility People. , 2022, , 859-876.		0
2	Coloured Petri Nets-Based Modeling and Validation of Insulin Infusion Pump Systems. Applied Sciences (Switzerland), 2022, 12, 1475.	2.5	3
3	Exploring Early Prediction of Chronic Kidney Disease Using Machine Learning Algorithms for Small and Imbalanced Datasets. Applied Sciences (Switzerland), 2022, 12, 3673.	2.5	15
4	Reliability analysis of multi-parameter monitoring systems for Intensive Care Units. Reliability Engineering and System Safety, 2022, 226, 108638.	8.9	1
5	Formal Verification of a Trusted Execution Environment-Based Architecture for IoT Applications. IEEE Internet of Things Journal, 2021, 8, 17199-17210.	8.7	8
6	Classification Models for COVID-19 Test Prioritization in Brazil: Machine Learning Approach. Journal of Medical Internet Research, 2021, 23, e27293.	4.3	24
7	Low-Cost Home Automation System for Physical Disability and Limited Mobility People. Advances in Computational Intelligence and Robotics Book Series, 2021, , 151-172.	0.4	0
8	Computer-Aided Diagnosis of Chronic Kidney Disease in Developing Countries: A Comparative Analysis of Machine Learning Techniques. IEEE Access, 2020, 8, 25407-25419.	4.2	35
9	A Certification-Based Modeling Approach of Medical Cyber-Physical Systems: An Insulin Infusion Pump Case Study. Advances in Intelligent Systems and Computing, 2020, , 501-507.	0.6	0
10	A Software Architecture of Test Case Tools for Object-Oriented Programs. Advances in Intelligent Systems and Computing, 2020, , 687-691.	0.6	0
11	A mixed-radix FFT algorithm implementation based on Petri nets to assist the certification of bio-medical systems. , 2019, , .		2
12	A Coloured Petri Nets Reference Model of Insulin Infusion Pump Control Systems: Assisting the Certification Process. , 2019, , .		1
13	Formal modeling of biomedical signal acquisition systems: source of evidence for certification. Software and Systems Modeling, 2019, 18, 1467-1485.	2.7	9
14	Design of a Home Automation App to Assist Elderly and Limited Mobility People. Advances in Web Technologies and Engineering Book Series, 2019, , 66-83.	0.4	1
15	Design and evaluation of a mobile application to assist the self-monitoring of the chronic kidney disease in developing countries. BMC Medical Informatics and Decision Making, 2018, 18, 7.	3.0	45
16	Arguing effectiveness of biomedical signal acquisition devices using colored Petri Nets models and assurance cases in GSN: An ECG case study. , 2016, 2016, 2488-2491.		0
17	A simulation approach to certify electrocardiography devices. , 2015, , .		3
18	A methodology for modeling and simulation of biomedical signal acquisition devices. , 2015, , .		1

#	Article	IF	Citations
19	A Colored Petri Nets model of the risk management process based on the ISO 14971 standard. , 2015, , .		0
20	Formal specification of a tool to aid the early dignosis of the Chronic Kidney Disease. , 2015, , .		2
21	Towards medical device certification: A colored Petri Nets model of a surface electrocardiography device. , 2014, , .		7
22	Using Colored Petri Nets for the requirements engineering of a surface electrogastrography system. , 2014, , .		8