

Nuno M Garcia

List of Publications by Year in descending order

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163
papers

1,995
citations

361413

20
h-index

345221

36
g-index

176
all docs

176
docs citations

176
times ranked

1926
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypoglycaemia Prediction Models With Auto Explanation. IEEE Access, 2022, 10, 57930-57941.	4.2	3
2	Technological Solutions for Sign Language Recognition: A Scoping Review of Research Trends, Challenges, and Opportunities. IEEE Access, 2022, 10, 40979-40998.	4.2	12
3	Ethical Issues in Software Requirements Engineering. , 2022, 1, 31-52.		5
4	Daily motionless activities: A dataset with accelerometer, magnetometer, gyroscope, environment, and GPS data. Scientific Data, 2022, 9, 105.	5.3	3
5	Can the Eight Hop Test Be Measured with Sensors? A Systematic Review. Sensors, 2022, 22, 3582.	3.8	0
6	Monitoring of Cardiovascular Diseases: An Analysis of the Mobile Applications Available in the Google Play Store. Electronics (Switzerland), 2022, 11, 1881.	3.1	1
7	Prediction of Atrial Fibrillation using artificial intelligence on Electrocardiograms: A systematic review. Computer Science Review, 2021, 39, 100334.	15.3	22
8	Towards 5G-Enabled Self Adaptive Green and Reliable Communication in Intelligent Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5223-5231.	8.0	49
9	Mobile Device Approach for the Measurement of Jump Flight Time. Lecture Notes in Computer Science, 2021, , 372-375.	1.3	0
10	CoviHealth: A Pilot Study with Teenagers in Schools of Centre of Portugal. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 139-147.	0.3	0
11	Approach for the Development of a System for COVID-19 Preliminary Test. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 117-124.	0.3	1
12	Computerised Sentiment Analysis on Social Networks. Two Case Studies: FIFA World Cup 2018 and Cristiano Ronaldo Joining Juventus. Advances in Intelligent Systems and Computing, 2021, , 126-140.	0.6	1
13	An Experimental Study on the Validity and Reliability of a Smartphone Application to Acquire Temporal Variables during the Single Sit-to-Stand Test with Older Adults. Sensors, 2021, 21, 2050.	3.8	11
14	A Systematic Investigation of Models for Color Image Processing in Wound Size Estimation. Computers, 2021, 10, 43.	3.3	5
15	A Framework for Malicious Traffic Detection in IoT Healthcare Environment. Sensors, 2021, 21, 3025.	3.8	77
16	Towards Detecting Pneumonia Progression in COVID-19 Patients by Monitoring Sleep Disturbance Using Data Streams of Non-Invasive Sensor Networks. Sensors, 2021, 21, 3030.	3.8	7
17	A Brief Review on the Sensor Measurement Solutions for the Ten-Meter Walk Test. Computers, 2021, 10, 49.	3.3	4
18	Indoor and outdoor environmental data: A dataset with acoustic data acquired by the microphone embedded on mobile devices. Data in Brief, 2021, 36, 107051.	1.0	1

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19	Mobile application for Inclusive Tourism. , 2021, , .		4
20	Rural Healthcare IoT Architecture Based on Low-Energy LoRa. International Journal of Environmental Research and Public Health, 2021, 18, 7660.	2.6	21
21	Comparison of machine learning techniques for the identification of human activities from inertial sensors available in a mobile device after the application of data imputation techniques. Computers in Biology and Medicine, 2021, 135, 104638.	7.0	17
22	Data-based algorithms and models using diabetics real data for blood glucose and hypoglycaemia prediction – A systematic literature review. Artificial Intelligence in Medicine, 2021, 118, 102120.	6.5	39
23	Experimental Study on Wound Area Measurement with Mobile Devices. Sensors, 2021, 21, 5762.	3.8	11
24	Keeping Children Safe Online With Limited Resources: Analyzing What is Seen and Heard. IEEE Access, 2021, 9, 132723-132732.	4.2	7
25	Mobile 5P-Medicine Approach for Cardiovascular Patients. Sensors, 2021, 21, 6986.	3.8	13
26	Recognition of Activities of Daily Living Based on a Mobile Data Source Framework. Studies in Computational Intelligence, 2021, , 321-335.	0.9	2
27	Accurate Range-Free Localization Algorithms Based on PSO for Wireless Sensor Networks. IEEE Access, 2021, 9, 149906-149924.	4.2	13
28	A Two-Fold Machine Learning Approach to Prevent and Detect IoT Botnet Attacks. IEEE Access, 2021, 9, 163412-163430.	4.2	32
29	Identification of Real and Imaginary Movements in EEG Using Machine Learning Models. IFMBE Proceedings, 2020, , 469-474.	0.3	1
30	Identification of Activities of Daily Living through Artificial Intelligence: an accelerometry-based approach. Procedia Computer Science, 2020, 175, 308-314.	2.0	2
31	Machine learning for the evaluation of the presence of heart disease. Procedia Computer Science, 2020, 177, 432-437.	2.0	14
32	Homogeneous Data Normalization and Deep Learning: A Case Study in Human Activity Classification. Future Internet, 2020, 12, 194.	3.8	23
33	Prediction of Attendance at Medical Appointments Based on Machine Learning. , 2020, , .		8
34	PRIPRO:Solution for user profile control and management based on data privacy. , 2020, , .		1
35	Measurement of Results of Functional Reach Test with Sensors: A Systematic Review. Electronics (Switzerland), 2020, 9, 1078.	3.1	12
36	Mobile Applications for Training Plan Using Android Devices: A Systematic Review and a Taxonomy Proposal. Information (Switzerland), 2020, 11, 343.	2.9	15

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37	Analysis of the Results of Heel-Rise Test with Sensors: A Systematic Review. Electronics (Switzerland), 2020, 9, 1154.	3.1	12
38	Machine Learning Techniques with ECG and EEG Data: An Exploratory Study. Computers, 2020, 9, 55.	3.3	8
39	Improving Human Activity Monitoring by Imputation of Missing Sensory Data: Experimental Study. Future Internet, 2020, 12, 155.	3.8	14
40	Promotion of Healthy Lifestyles to Teenagers with Mobile Devices: A Case Study in Portugal. Healthcare (Switzerland), 2020, 8, 315.	2.0	11
41	Classifier Precision Analysis for Sleep Apnea Detection Using ECG Signals. IEEE Access, 2020, 8, 200477-200485.	4.2	21
42	Air Pollution Prediction with Multi-Modal Data and Deep Neural Networks. Remote Sensing, 2020, 12, 4142.	4.0	57
43	Literature on Applied Machine Learning in Metagenomic Classification: A Scoping Review. Biology, 2020, 9, 453.	2.8	15
44	Data acquisition of timed-up and go test with older adults: accelerometer, magnetometer, electrocardiography and electroencephalography sensorsâ€™ data. Data in Brief, 2020, 32, 106306.	1.0	3
45	Aging at Work: A Review of Recent Trends and Future Directions. International Journal of Environmental Research and Public Health, 2020, 17, 7659.	2.6	9
46	Circular Economy for Clothes Using Web and Mobile Technologiesâ€™ A Systematic Review and a Taxonomy Proposal. Information (Switzerland), 2020, 11, 161.	2.9	7
47	Clinical decision support systems for chronic diseases: A Systematic literature review. Computer Methods and Programs in Biomedicine, 2020, 195, 105565.	4.7	29
48	Identification of Diseases Based on the Use of Inertial Sensors: A Systematic Review. Electronics (Switzerland), 2020, 9, 778.	3.1	10
49	Activities of Daily Living and Environment Recognition Using Mobile Devices: A Comparative Study. Electronics (Switzerland), 2020, 9, 180.	3.1	11
50	Identification of Warning Situations in Road Using Cloud Computing Technologies and Sensors Available in Mobile Devices: A Systematic Review. Electronics (Switzerland), 2020, 9, 416.	3.1	2
51	A Research on the Classification and Applicability of the Mobile Health Applications. Journal of Personalized Medicine, 2020, 10, 11.	2.5	69
52	Promotion of Healthy Nutrition and Physical Activity Lifestyles for Teenagers: A Systematic Literature Review of The Current Methodologies. Journal of Personalized Medicine, 2020, 10, 12.	2.5	13
53	Towards QoE Optimization in Medical Multimedia Services for Decentralized IoT-based Applications. , 2020, , .		2
54	A Cost Analysis of Implementing a Blockchain Architecture in a Smart Grid Scenario Using Sidechains. Sensors, 2020, 20, 843.	3.8	29

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55	Pattern Recognition Techniques for the Identification of Activities of Daily Living Using a Mobile Device Accelerometer. Electronics (Switzerland), 2020, 9, 509.	3.1	33
56	Is The Timed-Up and Go Test Feasible in Mobile Devices? A Systematic Review. Electronics (Switzerland), 2020, 9, 528.	3.1	16
57	A Review on the Artificial Intelligence Algorithms for the Recognition of Activities of Daily Living Using Sensors in Mobile Devices. Advances in Intelligent Systems and Computing, 2020, , 685-713.	0.6	3
58	Activities of daily living with motion: A dataset with accelerometer, magnetometer and gyroscope data from mobile devices. Data in Brief, 2020, 33, 106628.	1.0	6
59	Identification of Daily Activities and Environments Based on the AdaBoost Method Using Mobile Device Data: A Systematic Review. Electronics (Switzerland), 2020, 9, 192.	3.1	7
60	Detection of diseases based on Electrocardiography and Electroencephalography signals embedded in different devices: An exploratory study. Brazilian Journal of Development, 2020, 6, 27212-27231.	0.1	6
61	Mobile Applications Dedicated for Cardiac Patients: Research of Available Resources. Intelligent Systems Reference Library, 2020, , 107-119.	1.2	0
62	Diabetes Disease through Machine Learning: A comparative study. , 2020, , .		0
63	Teenagers from Centre of Portugal: Nutrition and Physical Activity Data. , 2020, , .		0
64	Control and Prevention of Personal Stress. , 2020, , .		1
65	Personal Digital Life Coach for Physical Therapy. , 2020, , .		1
66	Using Different Models of Machine Learning to Predict Attendance at Medical Appointments. Journal of Information Systems Engineering and Management, 2020, 5, em0122.	0.7	10
67	Smartphone-based automatic measurement of the results of the Timed-Up and Go test. , 2019, , .		3
68	PRICHAIN: A Partially Decentralized Implementation of UbiPri Middleware Using Blockchain. Sensors, 2019, 19, 4483.	3.8	11
69	A review of frameworks on continuous data acquisition for e-Health and m-Health. , 2019, , .		7
70	How to Get a Badge? Unlock Your Mind : Motivation through Student Empowerment. , 2019, , .		8
71	Internet of Things Architectures, Technologies, Applications, Challenges, and Future Directions for Enhanced Living Environments and Healthcare Systems: A Review. Electronics (Switzerland), 2019, 8, 1081.	3.1	103
72	CoviHealth. , 2019, , .		4

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73	Towards an accurate sleep apnea detection based on ECG signal: The quintessential of a wise feature selection. <i>Applied Soft Computing Journal</i> , 2019, 83, 105568.	7.2	49
74	Version Reporting and Assessment Approaches for New and Updated Activity and Heart Rate Monitors. <i>Sensors</i> , 2019, 19, 1705.	3.8	25
75	Automation in Systematic, Scoping and Rapid Reviews by an NLP Toolkit: A Case Study in Enhanced Living Environments. <i>Lecture Notes in Computer Science</i> , 2019, , 1-18.	1.3	18
76	Keyed User Datagram Protocol: Concepts and Operation of an Almost Reliable Connectionless Transport Protocol. <i>IEEE Access</i> , 2019, 7, 18951-18963.	4.2	6
77	A Telemedicine Robot System for Assisted and Independent Living. <i>Sensors</i> , 2019, 19, 834.	3.8	51
78	Recognition of Activities of Daily Living and Environments Using Acoustic Sensors Embedded on Mobile Devices. <i>Electronics (Switzerland)</i> , 2019, 8, 1499.	3.1	22
79	Towards Machine Learning Enabled Security Framework for IoT-based Healthcare. , 2019, , .		31
80	Agile Scrum Scaling Practices for Large Scale Software Development. , 2019, , .		6
81	Mobile Applications for the Promotion and Support of Healthy Nutrition and Physical Activity Habits: A Systematic Review, Extraction of Features and Taxonomy Proposal. <i>Open Bioinformatics Journal</i> , 2019, 13, 50-71.	1.0	5
82	Mobile Applications for the Promotion and Support of Healthy Nutrition and Physical Activity Habits: A Systematic Review, Extraction of Features and Taxonomy Proposal. <i>Open Bioinformatics Journal</i> , 2019, 12, 50-71.	1.0	7
83	Breast Skin Temperature Evaluation in Lactating and Non-lactating Women by Thermography: An Exploratory Study. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2019, , 317-322.	0.5	0
84	Is the Overfitting in a Neural Network a Reliable Model for the Recognition of Activities of Daily Living?. , 2019, , .		1
85	Approach for the Development of a Framework for the Identification of Activities of Daily Living Using Sensors in Mobile Devices. <i>Sensors</i> , 2018, 18, 640.	3.8	25
86	Identification of activities of daily living through data fusion on motion and magnetic sensors embedded on mobile devices. <i>Pervasive and Mobile Computing</i> , 2018, 47, 78-93.	3.3	39
87	Recognition of Activities of Daily Living Based on Environmental Analyses Using Audio Fingerprinting Techniques: A Systematic Review. <i>Sensors</i> , 2018, 18, 160.	3.8	21
88	Validation of a method for the estimation of energy expenditure during physical activity using a mobile device accelerometer. <i>Journal of Ambient Intelligence and Smart Environments</i> , 2018, 10, 315-326.	1.4	12
89	Scaffolding students on connecting STEM and interaction design: Case study in Tallinn University Summer School. , 2018, , .		3
90	Android Library for Recognition of Activities of Daily Living: Implementation Considerations, Challenges, and Solutions. <i>Open Bioinformatics Journal</i> , 2018, 11, 61-88.	1.0	18

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91	Multi-Sensor Mobile Platform for the Recognition of Activities of Daily Living and their Environments based on Artificial Neural Networks. , 2018, , .		4
92	Measurement of the Reaction Time in the 30-S Chair Stand Test using the Accelerometer Sensor Available in off-the-Shelf Mobile Devices. , 2018, , .		4
93	Limitations of the Use of Mobile Devices and Smart Environments for the Monitoring of Ageing People. , 2018, , .		13
94	Framework for the Recognition of Activities of Daily Living and Their Environments in the Development of a Personal Digital Life Coach. , 2018, , .		2
95	Towards a Fully Automated Bracelet for Health Emergency Solution. , 2018, , .		5
96	TV White Space Spectrum Administration. , 2018, , 97-117.		0
97	Cloud Adoption Readiness Assessment Framework for Small and Medium Enterprises in Developing Economies - Evidential Reasoning Approach. , 2018, , .		1
98	Importance of Personalized Health-Care Models: A Case Study in Activity Recognition. Studies in Health Technology and Informatics, 2018, 249, 185-188.	0.3	2
99	Introduction to the AAL and ELE Systems. , 2017, , 1-16.		15
100	Matching Requirements for Ambient Assisted Living and Enhanced Living Environments with Networking Technologies. , 2017, , 91-121.		5
101	Cloud Based Smart Living System Prototype. , 2017, , 147-170.		1
102	AAL and ELE Platform Architecture. , 2017, , 171-209.		8
103	Cloud-Oriented Domain for AAL. , 2017, , 271-286.		0
104	End-Users Testing of Enhanced Living Environment Platform and Services. , 2017, , 427-440.		1
105	Classification techniques on computerized systems to predict and/or to detect Apnea: A systematic review. Computer Methods and Programs in Biomedicine, 2017, 140, 265-274.	4.7	46
106	Improving Activity Recognition Accuracy in Ambient-Assisted Living Systems by Automated Feature Engineering. IEEE Access, 2017, 5, 5262-5280.	4.2	128
107	Real-time wireless UWB sensor network for person monitoring. , 2017, , .		10
108	Cloud computing as technological solutions for higher education institutions: Adoption readiness assessment model: Reseach in-progress. , 2017, , .		2

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109	Limitations of Energy Expenditure Calculation Based on a Mobile Phone Accelerometer. , 2017, , .		5
110	Brain Computer Interface Systems for Neurorobotics: Methods and Applications. BioMed Research International, 2017, 2017, 1-2.	1.9	14
111	Smartphones as Multipurpose Intelligent Objects for AAL: Two Case Studies. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 125-134.	0.3	2
112	Cloud Suitability Assessment Method for Application Software. , 2017, , .		0
113	Simulation in Medical School Education. Studies in Health Technology and Informatics, 2017, 242, 1034-1036.	0.3	1
114	Validation Techniques for Sensor Data in Mobile Health Applications. Journal of Sensors, 2016, 2016, 1-9.	1.1	30
115	Pain Assessment“Can it be Done with a Computerised System? A Systematic Review and Meta-Analysis. International Journal of Environmental Research and Public Health, 2016, 13, 415.	2.6	17
116	From Data Acquisition to Data Fusion: A Comprehensive Review and a Roadmap for the Identification of Activities of Daily Living Using Mobile Devices. Sensors, 2016, 16, 184.	3.8	123
117	A data fusion model to evaluate computerized pain diaries on anxiety and depression assessment. , 2016, , .		0
118	Contribution of biosignals for emotional analysis on image perception. , 2016, , .		0
119	ubiSleep: An ubiquitous sensor system for sleep monitoring. , 2016, , .		10
120	Sleep apnea detection using a feed-forward neural network on ECG signal. , 2016, , .		16
121	Electrocardiography, electromyography, and accelerometry signals collected with BITalino while swimming: Device assembly and preliminary results. , 2016, , .		4
122	Elderly mobility analysis during Timed Up and Go test using biosignals. , 2016, , .		2
123	Identification of Activities of Daily Living Using Sensors Available in off-the-shelf Mobile Devices: Research and Hypothesis. Advances in Intelligent Systems and Computing, 2016, , 121-130.	0.6	14
124	A Roadmap to the Design of a Personal Digital Life Coach. Advances in Intelligent Systems and Computing, 2016, , 21-27.	0.6	12
125	Analyzing the Academic Approaches to Learning of Portuguese College Students Through the Psychometric Study of a Questionnaire. Communications in Computer and Information Science, 2016, , 365-375.	0.5	0
126	Metabolic.Care: A Novel Solution Based on a Thermography for Detection of Diabetic Foot. Advances in Intelligent Systems and Computing, 2016, , 113-119.	0.6	0

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127	QoS performance analysis of non-slotted and slotted optical burst switched networks. , 2015, , .		2
128	A review of thermal methods and technologies for diabetic foot assessment. Expert Review of Medical Devices, 2015, 12, 439-448.	2.8	14
129	Machine Learning Approaches to Automated Medical Decision Support Systems. Advances in Computational Intelligence and Robotics Book Series, 2015, , 183-203.	0.4	12
130	Artificial Neural Learning Based on Big Data Process for eHealth Applications. Advances in Web Technologies and Engineering Book Series, 2015, , 291-306.	0.4	2
131	Calculation of Jump Flight Time using a Mobile Device. , 2015, , .		3
132	Wound Area Assessment using Mobile Application. , 2015, , .		7
133	Big data reduction using RBFNN: A predictive model for ECG waveform for eHealth platform integration. , 2014, , .		6
134	Metabolic.Care: A hardware and software platform to monitor and assess diabetic foot condition. , 2014, , .		0
135	A validated multidisciplinary study on the assessment of SMS messages as a mean to improve self-efficacy in university students. , 2014, , .		0
136	TICE.Healthy: A perspective on medical information integration. , 2014, , .		8
137	Development of a low power wireless network to support elderly people based on eZ430-Chronos and SimpliciTI. , 2014, , .		2
138	Energy-Harvesting Methods for Medical Devices. , 2014, , 327-356.		0
139	An Off-the-Shelf Platform for Automatic and Interactive Text Messaging Using Short Message Service. Lecture Notes in Computer Science, 2014, , 489-500.	1.3	1
140	TICE.Healthy: Integraçãõ de soluçãões TIC para a "Saãde e Qualidade de Vida". RISTI - Revista Iberica De Sistemas E Tecnologias De Informacao, 2014, , .	0.2	1
141	Study on the performance of slotted and non-slotted Optical Burst Switched networks. , 2013, , .		1
142	6LoWPAN: Interconnecting Objects with IPv6. , 2013, , 485-510.		1
143	The effect of time slot parameters on slotted optical burst switched networks. , 2011, , .		0
144	Acquisition of Multiple Physiological Parameters During Physical Exercise. International Journal of E-Health and Medical Communications, 2011, 2, 37-49.	1.6	10

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145	Context-awareness for mobility management: A systems survey for healthcare monitoring. , 2011, , .		3
146	Lightweight portable sensors for health care. , 2010, , .		5
147	Algorithms for Extraction and Visualization of Metadata from Domain Name Server Records. , 2010, , .		1
148	Performance assessment of optical burst switching networks based on a common control channel with distributed control. , 2009, , .		0
149	A New Architecture for Optical Burst Switching Networks Based on Cooperative Control. , 2009, , .		1
150	The Ethernet Frame Payload Size and Its Effect on IPv4 and IPv6 Traffic. , 2008, , .		13
151	Measuring and Profiling IP Traffic. , 2007, , .		2
152	On the Performance of Shortest Path Routing Algorithms for Modeling and Simulation of Static Source Routed Networks – an Extension to the Dijkstra Algorithm. , 2007, , .		12
153	Enhanced Just-in-Time: A New Resource Reservation Protocol for Optical Burst Switching Networks. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	14
154	Performance of Optical Burst Switched Networks for Grid Applications. , 2007, , .		3
155	A new architectural approach for optical burst switching networks based on a common control channel. Optical Switching and Networking, 2007, 4, 173-188.	2.0	5
156	Assessment of Burst Assembly Algorithms using Real IPv4 Data Traces. , 2006, , .		3
157	Issues on Performance Assessment of Optical Burst Switched Networks: Burst Loss Versus Packet Loss Metrics. Lecture Notes in Computer Science, 2006, , 778-786.	1.3	0
158	Optical Communications Research Activities at COM RD1 Siemens S.A.. Fiber and Integrated Optics, 2005, 24, 395-410.	2.5	0
159	A New Architecture for Optical Burst Switched Networks Based on a Common Control Channel. , 0, , .		5
160	E-Health. Advances in Electronic Government, Digital Divide, and Regional Development Book Series, 0, , 302-326.	0.2	9
161	Machine Learning Approaches to Automated Medical Decision Support Systems. , 0, , 1653-1673.		3
162	Acquisition of Multiple Physiological Parameters During Physical Exercise. , 0, , 102-113.		0

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163	Artificial Neural Learning Based on Big Data Process for eHealth Applications. , 0, , 1524-1540.		1