Nuno M Garcia

List of Publications by Citations

140 papers	**1,035** citations	**16** h-index	**25** g-index
176 ext. papers	**1,515** ext. citations	**2.4** avg, IF	**5.03** L-index

#	Paper	IF	Citations
140	Improving Activity Recognition Accuracy in Ambient-Assisted Living Systems by Automated Feature Engineering. *IEEE Access*, **2017**, 5, 5262-5280	3.5	92
139	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	89
138	Internet of Things Architectures, Technologies, Applications, Challenges, and Future Directions for Enhanced Living Environments and Healthcare Systems: A Review. *Electronics (Switzerland)*, **2019**, 8, 1081	2.6	72
137	A Research on the Classification and Applicability of the Mobile Health Applications. *Journal of Personalized Medicine*, **2020**, 10,	3.6	33
136	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	6.9	29
135	Identification of activities of daily living through data fusion on motion and magnetic sensors embedded on mobile devices. *Pervasive and Mobile Computing*, **2018**, 47, 78-93	3.5	29
134	A Telemedicine Robot System for Assisted and Independent Living. *Sensors*, **2019**, 19,	3.8	26
133	Towards an accurate sleep apnea detection based on ECG signal: The quintessential of a wise feature selection. *Applied Soft Computing Journal*, **2019**, 83, 105568	7.5	24
132	Approach for the Development of a Framework for the Identification of Activities of Daily Living Using Sensors in Mobile Devices. *Sensors*, **2018**, 18,	3.8	22
131	**2019**,		21
130	Towards 5G-Enabled Self Adaptive Green and Reliable Communication in Intelligent Transportation System. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 5223-5231	6.1	21
129	Pattern Recognition Techniques for the Identification of Activities of Daily Living Using a Mobile Device Accelerometer. *Electronics (Switzerland)*, **2020**, 9, 509	2.6	19
128	Validation Techniques for Sensor Data in Mobile Health Applications. *Journal of Sensors*, **2016**, 2016, 1-9	2	19
127	Air Pollution Prediction with Multi-Modal Data and Deep Neural Networks. *Remote Sensing*, **2020**, 12, 4142	5	18
126	A Cost Analysis of Implementing a Blockchain Architecture in a Smart Grid Scenario Using Sidechains. *Sensors*, **2020**, 20,	3.8	16
125	A Framework for Malicious Traffic Detection in IoT Healthcare Environment. *Sensors*, **2021**, 21,	3.8	16
124	Version Reporting and Assessment Approaches for New and Updated Activity and Heart Rate Monitors. *Sensors*, **2019**, 19,	3.8	15

123	Recognition of Activities of Daily Living and Environments Using Acoustic Sensors Embedded on Mobile Devices. *Electronics (Switzerland)*, **2019**, 8, 1499	2.6	14
122	A review of thermal methods and technologies for diabetic foot assessment. *Expert Review of Medical Devices*, **2015**, 12, 439-48	3.5	13
121	Recognition of Activities of Daily Living Based on Environmental Analyses Using Audio Fingerprinting Techniques: A Systematic Review. *Sensors*, **2018**, 18,	3.8	13
120	Introduction to the AAL and ELE Systems **2017**, 1-16		12
119	Enhanced Just-in-Time: A New Resource Reservation Protocol for Optical Burst Switching Networks. *Proceedings - International Symposium on Computers and Communications*, **2007**,		12
118	Clinical decision support systems for chronic diseases: A Systematic literature review. *Computer Methods and Programs in Biomedicine*, **2020**, 195, 105565	6.9	11
117	Validation of a method for the estimation of energy expenditure during physical activity using a mobile device accelerometer. *Journal of Ambient Intelligence and Smart Environments*, **2018**, 10, 315-326	2.2	11
116	Android Library for Recognition of Activities of Daily Living: Implementation Considerations, Challenges, and Solutions. *Open Bioinformatics Journal*, **2018**, 11, 61-88	0.8	11
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	4.6	10
114	Sleep apnea detection using a feed-forward neural network on ECG signal **2016**,		9
113	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	0.4	9
112	A Roadmap to the Design of a Personal Digital Life Coach. *Advances in Intelligent Systems and Computing*, **2016**, 21-27	0.4	9
111	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	7.4	9
110	Acquisition of Multiple Physiological Parameters During Physical Exercise. *International Journal of E-Health and Medical Communications*, **2011**, 2, 37-49	1.4	8
109	The Ethernet Frame Payload Size and Its Effect on IPv4 and IPv6 Traffic **2008**,		8
108	Machine Learning Approaches to Automated Medical Decision Support Systems. *Advances in Computational Intelligence and Robotics Book Series*, **2015**, 183-203	0.4	8
107	Improving Human Activity Monitoring by Imputation of Missing Sensory Data: Experimental Study. *Future Internet*, **2020**, 12, 155	3.3	8
106	ubiSleep: An ubiquitous sensor system for sleep monitoring **2016**,		8

87	Big data reduction using RBFNN: A predictive model for ECG waveform for eHealth platform integration **2014**,		4
86	Accurate Range-Free Localization Algorithms Based on PSO for Wireless Sensor Networks. *IEEE Access*, **2021**, 9, 149906-149924	3.5	4
85	Mobile Applications for the Promotion and Support of Healthy Nutrition and Physical Activity Habits: A Systematic Review, Extraction of Features and Taxonomy Proposal. *Open Bioinformatics Journal*, **2019**, 13, 50-71	0.8	4
84	Identification of Daily Activites and Environments Based on the AdaBoost Method Using Mobile Device Data: A Systematic Review. *Electronics (Switzerland)*, **2020**, 9, 192	2.6	4
83	Detection of diseases based on Electrocardiography and Electroencephalography signals embedded in different devices: An exploratory study. *Brazilian Journal of Development*, **2020**, 6, 27212-27231	9	4
82	E-Health. *Advances in Electronic Government, Digital Divide, and Regional Development Book Series*,302-326	0.3	4
81	Pattern recognition techniques for the identification of Activities of Daily Living using mobile device accelerometer		4
80	Machine learning for the evaluation of the presence of heart disease. *Procedia Computer Science*, **2020**, 177, 432-437	1.6	4
79	Mobile Applications for Training Plan Using Android Devices: A Systematic Review and a Taxonomy Proposal. *Information (Switzerland)*, **2020**, 11, 343	2.6	4
78	Analysis of the Results of Heel-Rise Test with Sensors: A Systematic Review. *Electronics (Switzerland)*, **2020**, 9, 1154	2.6	4
77	Promotion of Healthy Lifestyles to Teenagers with Mobile Devices: A Case Study in Portugal. *Healthcare (Switzerland)*, **2020**, 8,	3.4	4
76	Classifier Precision Analysis for Sleep Apnea Detection Using ECG Signals. *IEEE Access*, **2020**, 8, 200477-200485	3.9	4
75	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,	3.8	4
74	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	4
73	Burst Assembly with Real IPv4 Data Performance Assessement of Three Assembly Algorithms. *Lecture Notes in Computer Science*, **2006**, 223-234	0.9	4
72	How to Get a Badge? Unlock Your Mind : Motivation through Student Empowerment **2019**,		3
71	CoviHealth **2019**,		3
70	Keyed User Datagram Protocol: Concepts and Operation of an Almost Reliable Connectionless Transport Protocol. *IEEE Access*, **2019**, 7, 18951-18963	3.5	3

69	Aging at Work: A Review of Recent Trends and Future Directions. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	3
68	Circular Economy for Clothes Using Web and Mobile Technologies—A Systematic Review and a Taxonomy Proposal. *Information (Switzerland)*, **2020**, 11, 161	2.6	3
67	TICE.Healthy: A perspective on medical information integration **2014**,		3
66	Context-awareness for mobility management: A systems survey for healthcare monitoring **2011**,		3
65	A new architectural approach for optical burst switching networks based on a common control channel. *Optical Switching and Networking*, **2007**, 4, 173-188	1.6	3
64	A Two-Fold Machine Learning Approach to Prevent and Detect IoT Botnet Attacks. *IEEE Access*, **2021**, 9, 163412-163430	3.5	3
63	Mobile Applications for the Promotion and Support of Healthy Nutrition and Physical Activity Habits: A Systematic Review, Extraction of Features and Taxonomy Proposal. *Open Bioinformatics Journal*, **2019**, 12, 50-71	0.8	3
62	Machine Learning Approaches to Automated Medical Decision Support Systems1653-1673		3
61	Calculation of Jump Flight Time using a Mobile Device **2015**,		3
60	Mobile 5P-Medicine Approach for Cardiovascular Patients. *Sensors*, **2021**, 21,	3.8	3
59	Data Fusion on Motion and Magnetic Sensors embedded on Mobile Devices for the Identification of Activities of Daily Living		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	1.2	3
57	Measurement of Results of Functional Reach Test with Sensors: A Systematic Review. *Electronics (Switzerland)*, **2020**, 9, 1078	2.6	3
56	Machine Learning Techniques with ECG and EEG Data: An Exploratory Study. *Computers*, **2020**, 9, 55	1.9	3
55	Towards Detecting Pneumonia Progression in COVID-19 Patients by Monitoring Sleep Disturbance Using Data Streams of Non-Invasive Sensor Networks. *Sensors*, **2021**, 21,	3.8	3
54	Agile Scrum Scaling Practices for Large Scale Software Development **2019**,		3
53	Data acquisition of timed-up and go test with older adults: accelerometer, magnetometer, electrocardiography and electroencephalography sensors data. *Data in Brief*, **2020**, 32, 106306	1.2	2
52	Identification of Warning Situations in Road Using Cloud Computing Technologies and Sensors Available in Mobile Devices: A Systematic Review. *Electronics (Switzerland)*, **2020**, 9, 416	2.6	2

51	Elderly mobility analysis during Timed Up and Go test using biosignals **2016**,		2
50	Scaffolding students on connecting STEM and interaction design: Case study in Tallinn University Summer School **2018**,		2
49	PRICHAIN: A Partially Decentralized Implementation of UbiPri Middleware Using Blockchain. *Sensors*, **2019**, 19,	3.8	2
48	A review of frameworks on continuous data acquisition for e-Health and m-Health **2019**,		2
47	Limitations of Energy Expenditure Calculation Based on a Mobile Phone Accelerometer **2017**,		2
46	Performance of Optical Burst Switched Networks for Grid Applications **2007**,		2
45	Measuring and Profiling IP Traffic **2007**,		2
44	Multi-Sensor Mobile Platform for the Recognition of Activities of Daily Living and their Environments based on Artificial Neural Networks **2018**,		2
43	Wound Area Assessment using Mobile Application **2015**,		2
42	Measurement of the Reaction Time in the 30-S Chair Stand Test using the Accelerometer Sensor Available in off-the-Shelf Mobile Devices **2018**,		2
41	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	0.2	2
40	Importance of Personalized Health-Care Models: A Case Study in Activity Recognition. *Studies in Health Technology and Informatics*, **2018**, 249, 185-188	0.5	2
39	Cloud Based Smart Living System Prototype **2017**, 147-170		1
38	End-Users Testing of Enhanced Living Environment Platform and Services **2017**, 427-440		1
37	Smartphone-based automatic measurement of the results of the Timed-Up and Go test **2019**,		1
36	Cloud computing as technological solutions for higher education institutions: Adoption readiness assessment model: Reseach in-progress **2017**,		1
35	**2015**,		1
34	Algorithms for Extraction and Visualization of Metadata from Domain Name Server Records **2010**,		1

33	Assessment of Burst Assembly Algorithms using Real IPv4 Data Traces **2006**,		1
32	Artificial Neural Learning Based on Big Data Process for eHealth Applications. *Advances in Web Technologies and Engineering Book Series*, **2015**, 291-306	0.2	1
31	Hypoglycaemia prediction models with auto explanation. *IEEE Access*, **2021**, 1-1	3.5	1
30	Recognition of Activities of Daily Living Based on a Mobile Data Source Framework. *Studies in Computational Intelligence*, **2021**, 321-335	0.8	1
29	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	0.4	1
28	Identification of Activities of Daily Living through Artificial Intelligence: an accelerometry-based approach. *Procedia Computer Science*, **2020**, 175, 308-314	1.6	1
27	PRIPRO:Solution for user profile control and management based on data privacy **2020**,		1
26	A Systematic Investigation of Models for Color Image Processing in Wound Size Estimation. *Computers*, **2021**, 10, 43	1.9	1
25	Indoor and outdoor environmental data: A dataset with acoustic data acquired by the microphone embedded on mobile devices. *Data in Brief*, **2021**, 36, 107051	1.2	1
24	Technological solutions for sign language recognition: a scoping review of research trends, challenges, and opportunities. *IEEE Access*, **2022**, 1-1	3.5	1
23	Ethical Issues in Software Requirements Engineering **2022**, 1, 31-52		1
22	Conceptual Definition of a Platform for the Monitoring of the Subjects with Nephrolithiasis Based on the Energy Expenditure and the Activities of Daily Living Performed. *Communications in Computer and Information Science*, **2018**, 3-11	0.3	0
21	An Off-the-Shelf Platform for Automatic and Interactive Text Messaging Using Short Message Service. *Lecture Notes in Computer Science*, **2014**, 489-500	0.9	0
20	A Brief Review on the Sensor Measurement Solutions for the Ten-Meter Walk Test. *Computers*, **2021**, 10, 49	1.9	0
19	Towards Pain-Fingerprinting: A Ubiquitous and Interoperable Clinical Decision Support System for Pain Assessment. *IFMBE Proceedings*, **2020**, 453-457	0.2	0
18	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	0.2	0
17	Cloud-Oriented Domain for AAL **2017**, 271-286		
16	Energy-Harvesting Methods for Medical Devices **2014**, 327-356		

List of Publications

No	Publication	Score
15	Optical Communications Research Activities at COM RD1 Siemens S.A.. *Fiber and Integrated Optics*, **2005**, 24, 395-410	0.8
14	Acquisition of Multiple Physiological Parameters During Physical Exercise102-113	
13	Artificial Neural Learning Based on Big Data Process for eHealth Applications1524-1540	
12	Issues on Performance Assessment of Optical Burst Switched Networks: Burst Loss Versus Packet Loss Metrics. *Lecture Notes in Computer Science*, **2006**, 778-786	0.9
11	TV White Space Spectrum Administration **2018**, 97-117	
10	Breast Skin Temperature Evaluation in Lactating and Non-lactating Women by Thermography: An Exploratory Study. *Lecture Notes in Computational Vision and Biomechanics*, **2019**, 317-322	0.3
9	Mobile Applications Dedicated for Cardiac Patients: Research of Available Resources. *Intelligent Systems Reference Library*, **2020**, 107-119	0.8
8	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	0.3
7	Metabolic.Care: A Novel Solution Based on a Thermography for Detection of Diabetic Foot. *Advances in Intelligent Systems and Computing*, **2016**, 113-119	0.4
6	Identification of Real and Imaginary Movements in EEG Using Machine Learning Models. *IFMBE Proceedings*, **2020**, 469-474	0.2
5	Mobile Device Approach for the Measurement of Jump Flight Time. *Lecture Notes in Computer Science*, **2021**, 372-375	0.9
4	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	0.2
3	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	0.4
2	Simulation in Medical School Education. *Studies in Health Technology and Informatics*, **2017**, 242, 1034-1036	0.5
1	Daily motionless activities: A dataset with accelerometer, magnetometer, gyroscope, environment, and GPS data.. *Scientific Data*, **2022**, 9, 105	8.2