

# Nuno M Garcia

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Technological solutions for sign language recognition: a scoping review of research trends, challenges, and opportunities. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	1
139	Ethical Issues in Software Requirements Engineering <b>2022</b> , 1, 31-52		1
138	Daily motionless activities: A dataset with accelerometer, magnetometer, gyroscope, environment, and GPS data.. <i>Scientific Data</i> , <b>2022</b> , 9, 105	8.2	
137	Accurate Range-Free Localization Algorithms Based on PSO for Wireless Sensor Networks. <i>IEEE Access</i> , <b>2021</b> , 9, 149906-149924	3.5	4
136	A Two-Fold Machine Learning Approach to Prevent and Detect IoT Botnet Attacks. <i>IEEE Access</i> , <b>2021</b> , 9, 163412-163430	3.5	3
135	Hypoglycaemia prediction models with auto explanation. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	1
134	Mobile 5P-Medicine Approach for Cardiovascular Patients. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
133	Recognition of Activities of Daily Living Based on a Mobile Data Source Framework. <i>Studies in Computational Intelligence</i> , <b>2021</b> , 321-335	0.8	1
132	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. <i>Sensors</i> , <b>2021</b> , 21,	3.8	4
131	A Systematic Investigation of Models for Color Image Processing in Wound Size Estimation. <i>Computers</i> , <b>2021</b> , 10, 43	1.9	1
130	A Framework for Malicious Traffic Detection in IoT Healthcare Environment. <i>Sensors</i> , <b>2021</b> , 21,	3.8	16
129	Towards Detecting Pneumonia Progression in COVID-19 Patients by Monitoring Sleep Disturbance Using Data Streams of Non-Invasive Sensor Networks. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
128	A Brief Review on the Sensor Measurement Solutions for the Ten-Meter Walk Test. <i>Computers</i> , <b>2021</b> , 10, 49	1.9	0
127	Indoor and outdoor environmental data: A dataset with acoustic data acquired by the microphone embedded on mobile devices. <i>Data in Brief</i> , <b>2021</b> , 36, 107051	1.2	1
126	Prediction of Atrial Fibrillation using artificial intelligence on Electrocardiograms: A systematic review. <i>Computer Science Review</i> , <b>2021</b> , 39, 100334	8.3	6
125	Towards 5G-Enabled Self Adaptive Green and Reliable Communication in Intelligent Transportation System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 5223-5231	6.1	21
124	Mobile Device Approach for the Measurement of Jump Flight Time. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 372-375	0.9	

123	CoviHealth: A Pilot Study with Teenagers in Schools of Centre of Portugal. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2021</b> , 139-147	0.2	
122	Approach for the Development of a System for COVID-19 Preliminary Test. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2021</b> , 117-124	0.2	0
121	Computerised Sentiment Analysis on Social Networks. Two Case Studies: FIFA World Cup 2018 and Cristiano Ronaldo Joining Juventus. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 126-140	0.4	
120	Rural Healthcare IoT Architecture Based on Low-Energy LoRa. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	5
119	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. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 135, 104638	7	4
118	Data-based algorithms and models using diabetics real data for blood glucose and hypoglycaemia prediction - A systematic literature review. <i>Artificial Intelligence in Medicine</i> , <b>2021</b> , 118, 102120	7.4	9
117	Air Pollution Prediction with Multi-Modal Data and Deep Neural Networks. <i>Remote Sensing</i> , <b>2020</b> , 12, 4142	5	18
116	Literature on Applied Machine Learning in Metagenomic Classification: A Scoping Review. <i>Biology</i> , <b>2020</b> , 9,	4.9	6
115	Data acquisition of timed-up and go test with older adults: accelerometer, magnetometer, electrocardiography and electroencephalography sensors data. <i>Data in Brief</i> , <b>2020</b> , 32, 106306	1.2	2
114	Aging at Work: A Review of Recent Trends and Future Directions. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	3
113	Circular Economy for Clothes Using Web and Mobile Technologies A Systematic Review and a Taxonomy Proposal. <i>Information (Switzerland)</i> , <b>2020</b> , 11, 161	2.6	3
112	Clinical decision support systems for chronic diseases: A Systematic literature review. <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 195, 105565	6.9	11
111	Identification of Diseases Based on the Use of Inertial Sensors: A Systematic Review. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 778	2.6	4
110	Activities of Daily Living and Environment Recognition Using Mobile Devices: A Comparative Study. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 180	2.6	7
109	Identification of Warning Situations in Road Using Cloud Computing Technologies and Sensors Available in Mobile Devices: A Systematic Review. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 416	2.6	2
108	A Research on the Classification and Applicability of the Mobile Health Applications. <i>Journal of Personalized Medicine</i> , <b>2020</b> , 10,	3.6	33
107	Promotion of Healthy Nutrition and Physical Activity Lifestyles for Teenagers: A Systematic Literature Review of The Current Methodologies. <i>Journal of Personalized Medicine</i> , <b>2020</b> , 10,	3.6	6
106	A Cost Analysis of Implementing a Blockchain Architecture in a Smart Grid Scenario Using Sidechains. <i>Sensors</i> , <b>2020</b> , 20,	3.8	16

105	Pattern Recognition Techniques for the Identification of Activities of Daily Living Using a Mobile Device Accelerometer. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 509	2.6	19
104	Is The Timed-Up and Go Test Feasible in Mobile Devices? A Systematic Review. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 528	2.6	7
103	Using Different Models of Machine Learning to Predict Attendance at Medical Appointments. <i>Journal of Information Systems Engineering and Management</i> , <b>2020</b> , 5, em0122	0.4	7
102	Identification of Daily Activites and Environments Based on the AdaBoost Method Using Mobile Device Data: A Systematic Review. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 192	2.6	4
101	Detection of diseases based on Electrocardiography and Electroencephalography signals embedded in different devices: An exploratory study. <i>Brazilian Journal of Development</i> , <b>2020</b> , 6, 27212-27231	2.9	4
100	Mobile Applications Dedicated for Cardiac Patients: Research of Available Resources. <i>Intelligent Systems Reference Library</i> , <b>2020</b> , 107-119	0.8	
99	A Review on the Artificial Intelligence Algorithms for the Recognition of Activities of Daily Living Using Sensors in Mobile Devices. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 685-713	0.4	1
98	Activities of daily living with motion: A dataset with accelerometer, magnetometer and gyroscope data from mobile devices. <i>Data in Brief</i> , <b>2020</b> , 33, 106628	1.2	3
97	Identification of Activities of Daily Living through Artificial Intelligence: an accelerometry-based approach. <i>Procedia Computer Science</i> , <b>2020</b> , 175, 308-314	1.6	1
96	Machine learning for the evaluation of the presence of heart disease. <i>Procedia Computer Science</i> , <b>2020</b> , 177, 432-437	1.6	4
95	Homogeneous Data Normalization and Deep Learning: A Case Study in Human Activity Classification. <i>Future Internet</i> , <b>2020</b> , 12, 194	3.3	7
94	Prediction of Attendance at Medical Appointments Based on Machine Learning <b>2020</b> ,		5
93	PRIPRO:Solution for user profile control and management based on data privacy <b>2020</b> ,		1
92	Measurement of Results of Functional Reach Test with Sensors: A Systematic Review. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1078	2.6	3
91	Mobile Applications for Training Plan Using Android Devices: A Systematic Review and a Taxonomy Proposal. <i>Information (Switzerland)</i> , <b>2020</b> , 11, 343	2.6	4
90	Analysis of the Results of Heel-Rise Test with Sensors: A Systematic Review. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1154	2.6	4
89	Machine Learning Techniques with ECG and EEG Data: An Exploratory Study. <i>Computers</i> , <b>2020</b> , 9, 55	1.9	3
88	Improving Human Activity Monitoring by Imputation of Missing Sensory Data: Experimental Study. <i>Future Internet</i> , <b>2020</b> , 12, 155	3.3	8

87	Promotion of Healthy Lifestyles to Teenagers with Mobile Devices: A Case Study in Portugal. <i>Healthcare (Switzerland)</i> , <b>2020</b> , 8,	3.4	4
86	Classifier Precision Analysis for Sleep Apnea Detection Using ECG Signals. <i>IEEE Access</i> , <b>2020</b> , 8, 200477-200485	3.9	4
85	Identification of Real and Imaginary Movements in EEG Using Machine Learning Models. <i>IFMBE Proceedings</i> , <b>2020</b> , 469-474	0.2	
84	Towards Pain-Fingerprinting: A Ubiquitous and Interoperable Clinical Decision Support System for Pain Assessment. <i>IFMBE Proceedings</i> , <b>2020</b> , 453-457	0.2	0
83	How to Get a Badge? Unlock Your Mind : Motivation through Student Empowerment <b>2019</b> ,		3
82	Internet of Things Architectures, Technologies, Applications, Challenges, and Future Directions for Enhanced Living Environments and Healthcare Systems: A Review. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1081	2.6	72
81	CoviHealth <b>2019</b> ,		3
80	Towards an accurate sleep apnea detection based on ECG signal: The quintessential of a wise feature selection. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 83, 105568	7.5	24
79	Version Reporting and Assessment Approaches for New and Updated Activity and Heart Rate Monitors. <i>Sensors</i> , <b>2019</b> , 19,	3.8	15
78	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> , <b>2019</b> , 1-18	0.9	5
77	Keyed User Datagram Protocol: Concepts and Operation of an Almost Reliable Connectionless Transport Protocol. <i>IEEE Access</i> , <b>2019</b> , 7, 18951-18963	3.5	3
76	Smartphone-based automatic measurement of the results of the Timed-Up and Go test <b>2019</b> ,		1
75	PRICHAIN: A Partially Decentralized Implementation of UbiPri Middleware Using Blockchain. <i>Sensors</i> , <b>2019</b> , 19,	3.8	2
74	A review of frameworks on continuous data acquisition for e-Health and m-Health <b>2019</b> ,		2
73	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> , <b>2019</b> , 13, 50-71	0.8	4
72	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> , <b>2019</b> , 12, 50-71	0.8	3
71	Breast Skin Temperature Evaluation in Lactating and Non-lactating Women by Thermography: An Exploratory Study. <i>Lecture Notes in Computational Vision and Biomechanics</i> , <b>2019</b> , 317-322	0.3	
70	A Telemedicine Robot System for Assisted and Independent Living. <i>Sensors</i> , <b>2019</b> , 19,	3.8	26

69	Recognition of Activities of Daily Living and Environments Using Acoustic Sensors Embedded on Mobile Devices. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 1499	2.6	14
68	<b>2019</b> ,		21
67	Agile Scrum Scaling Practices for Large Scale Software Development <b>2019</b> ,		3
66	Recognition of Activities of Daily Living Based on Environmental Analyses Using Audio Fingerprinting Techniques: A Systematic Review. <i>Sensors</i> , <b>2018</b> , 18,	3.8	13
65	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> , <b>2018</b> , 10, 315-326 <sup>2.2</sup>		11
64	Scaffolding students on connecting STEM and interaction design: Case study in Tallinn University Summer School <b>2018</b> ,		2
63	Android Library for Recognition of Activities of Daily Living: Implementation Considerations, Challenges, and Solutions. <i>Open Bioinformatics Journal</i> , <b>2018</b> , 11, 61-88	0.8	11
62	Multi-Sensor Mobile Platform for the Recognition of Activities of Daily Living and their Environments based on Artificial Neural Networks <b>2018</b> ,		2
61	Measurement of the Reaction Time in the 30-S Chair Stand Test using the Accelerometer Sensor Available in off-the-Shelf Mobile Devices <b>2018</b> ,		2
60	Limitations of the Use of Mobile Devices and Smart Environments for the Monitoring of Ageing People <b>2018</b> ,		7
59	TV White Space Spectrum Administration <b>2018</b> , 97-117		
58	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. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 3-11	0.3	0
57	Approach for the Development of a Framework for the Identification of Activities of Daily Living Using Sensors in Mobile Devices. <i>Sensors</i> , <b>2018</b> , 18,	3.8	22
56	Identification of activities of daily living through data fusion on motion and magnetic sensors embedded on mobile devices. <i>Pervasive and Mobile Computing</i> , <b>2018</b> , 47, 78-93	3.5	29
55	Importance of Personalized Health-Care Models: A Case Study in Activity Recognition. <i>Studies in Health Technology and Informatics</i> , <b>2018</b> , 249, 185-188	0.5	2
54	Introduction to the AAL and ELE Systems <b>2017</b> , 1-16		12
53	Matching Requirements for Ambient Assisted Living and Enhanced Living Environments with Networking Technologies <b>2017</b> , 91-121		4
52	Cloud Based Smart Living System Prototype <b>2017</b> , 147-170		1

51	AAL and ELE Platform Architecture <b>2017</b> , 171-209		7
50	Cloud-Oriented Domain for AAL <b>2017</b> , 271-286		
49	End-Users Testing of Enhanced Living Environment Platform and Services <b>2017</b> , 427-440		1
48	Classification techniques on computerized systems to predict and/or to detect Apnea: A systematic review. <i>Computer Methods and Programs in Biomedicine</i> , <b>2017</b> , 140, 265-274	6.9	29
47	Improving Activity Recognition Accuracy in Ambient-Assisted Living Systems by Automated Feature Engineering. <i>IEEE Access</i> , <b>2017</b> , 5, 5262-5280	3.5	92
46	Real-time wireless UWB sensor network for person monitoring <b>2017</b> ,		5
45	Cloud computing as technological solutions for higher education institutions: Adoption readiness assessment model: Reseach in-progress <b>2017</b> ,		1
44	Limitations of Energy Expenditure Calculation Based on a Mobile Phone Accelerometer <b>2017</b> ,		2
43	Smartphones as Multipurpose Intelligent Objects for AAL: Two Case Studies. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2017</b> , 125-134	0.2	2
42	Simulation in Medical School Education. <i>Studies in Health Technology and Informatics</i> , <b>2017</b> , 242, 1034-1036		
41	Sleep apnea detection using a feed-forward neural network on ECG signal <b>2016</b> ,		9
40	Elderly mobility analysis during Timed Up and Go test using biosignals <b>2016</b> ,		2
39	Identification of Activities of Daily Living Using Sensors Available in off-the-shelf Mobile Devices: Research and Hypothesis. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 121-130	0.4	9
38	A Roadmap to the Design of a Personal Digital Life Coach. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 21-27	0.4	9
37	Analyzing the Academic Approaches to Learning of Portuguese College Students Through the Psychometric Study of a Questionnaire. <i>Communications in Computer and Information Science</i> , <b>2016</b> , 365-375	0.3	
36	Metabolic.Care: A Novel Solution Based on a Thermography for Detection of Diabetic Foot. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 113-119	0.4	
35	Validation Techniques for Sensor Data in Mobile Health Applications. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-9	2	19
34	Pain Assessment--Can it be Done with a Computerised System? A Systematic Review and Meta-Analysis. <i>International Journal of Environmental Research and Public Health</i> , <b>2016</b> , 13, 415	4.6	10

33	From Data Acquisition to Data Fusion: A Comprehensive Review and a Roadmap for the Identification of Activities of Daily Living Using Mobile Devices. <i>Sensors</i> , <b>2016</b> , 16, 184	3.8	89
32	ubiSleep: An ubiquitous sensor system for sleep monitoring <b>2016</b> ,		8
31	A review of thermal methods and technologies for diabetic foot assessment. <i>Expert Review of Medical Devices</i> , <b>2015</b> , 12, 439-48	3.5	13
30	<b>2015</b> ,		1
29	Machine Learning Approaches to Automated Medical Decision Support Systems. <i>Advances in Computational Intelligence and Robotics Book Series</i> , <b>2015</b> , 183-203	0.4	8
28	Artificial Neural Learning Based on Big Data Process for eHealth Applications. <i>Advances in Web Technologies and Engineering Book Series</i> , <b>2015</b> , 291-306	0.2	1
27	Calculation of Jump Flight Time using a Mobile Device <b>2015</b> ,		3
26	Wound Area Assessment using Mobile Application <b>2015</b> ,		2
25	Energy-Harvesting Methods for Medical Devices <b>2014</b> , 327-356		
24	Big data reduction using RBFNN: A predictive model for ECG waveform for eHealth platform integration <b>2014</b> ,		4
23	TICE.Healthy: A perspective on medical information integration <b>2014</b> ,		3
22	An Off-the-Shelf Platform for Automatic and Interactive Text Messaging Using Short Message Service. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 489-500	0.9	0
21	Acquisition of Multiple Physiological Parameters During Physical Exercise. <i>International Journal of E-Health and Medical Communications</i> , <b>2011</b> , 2, 37-49	1.4	8
20	Context-awareness for mobility management: A systems survey for healthcare monitoring <b>2011</b> ,		3
19	Lightweight portable sensors for health care <b>2010</b> ,		5
18	Algorithms for Extraction and Visualization of Metadata from Domain Name Server Records <b>2010</b> ,		1
17	The Ethernet Frame Payload Size and Its Effect on IPv4 and IPv6 Traffic <b>2008</b> ,		8
16	On the Performance of Shortest Path Routing Algorithms for Modeling and Simulation of Static Source Routed Networks -- an Extension to the Dijkstra Algorithm <b>2007</b> ,		6



15	Enhanced Just-in-Time: A New Resource Reservation Protocol for Optical Burst Switching Networks. <i>Proceedings - International Symposium on Computers and Communications, 2007,</i>		12
14	Performance of Optical Burst Switched Networks for Grid Applications <b>2007,</b>		2
13	A new architectural approach for optical burst switching networks based on a common control channel. <i>Optical Switching and Networking, 2007, 4, 173-188</i>	1.6	3
12	Measuring and Profiling IP Traffic <b>2007,</b>		2
11	Assessment of Burst Assembly Algorithms using Real IPv4 Data Traces <b>2006,</b>		1
10	Issues on Performance Assessment of Optical Burst Switched Networks: Burst Loss Versus Packet Loss Metrics. <i>Lecture Notes in Computer Science, 2006, 778-786</i>	0.9	
9	Burst Assembly with Real IPv4 Data Performance Assessment of Three Assembly Algorithms. <i>Lecture Notes in Computer Science, 2006, 223-234</i>	0.9	4
8	Optical Communications Research Activities at COM RD1 Siemens S.A.. <i>Fiber and Integrated Optics, 2005, 24, 395-410</i>	0.8	
7	Acquisition of Multiple Physiological Parameters During Physical Exercise102-113		
6	Artificial Neural Learning Based on Big Data Process for eHealth Applications1524-1540		
5	E-Health. <i>Advances in Electronic Government, Digital Divide, and Regional Development Book Series,302-326</i>	3	4
4	Machine Learning Approaches to Automated Medical Decision Support Systems1653-1673		3
3	Pattern recognition techniques for the identification of Activities of Daily Living using mobile device accelerometer		4
2	Data Fusion on Motion and Magnetic Sensors embedded on Mobile Devices for the Identification of Activities of Daily Living		3
1	End-usersUAAAL and ELE service scenarios in smart personal environments101-131		6