

Leandro Pecchia

List of Publications by Citations

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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.

121
papers

1,999
citations

24
h-index

43
g-index

153
ext. papers

2,675
ext. citations

2.4
avg, IF

5.45
L-index

#	Paper	IF	Citations
121	Acute mental stress assessment via short term HRV analysis in healthy adults: A systematic review with meta-analysis. <i>Biomedical Signal Processing and Control</i> , 2015 , 18, 370-377	4.9	215
120	Nonlinear Heart Rate Variability features for real-life stress detection. Case study: students under stress due to university examination. <i>BioMedical Engineering OnLine</i> , 2011 , 10, 96	4.1	168
119	Classification tree for risk assessment in patients suffering from congestive heart failure via long-term heart rate variability. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013 , 17, 727-33	7.2	102
118	Which is the best laparoscopic approach for inguinal hernia repair: TEP or TAPP? A systematic review of the literature with a network meta-analysis. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2012 , 26, 3355-66	5.2	89
117	Automatic prediction of cardiovascular and cerebrovascular events using heart rate variability analysis. <i>PLoS ONE</i> , 2015 , 10, e0118504	3.7	88
116	Discrimination power of short-term heart rate variability measures for CHF assessment. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011 , 15, 40-6		83
115	Remote health monitoring of heart failure with data mining via CART method on HRV features. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 800-4	5	67
114	Discrimination power of long-term heart rate variability measures for chronic heart failure detection. <i>Medical and Biological Engineering and Computing</i> , 2011 , 49, 67-74	3.1	62
113	Analytic Hierarchy Process (AHP) for examining healthcare professionals' assessments of risk factors. The relative importance of risk factors for falls in community-dwelling older people. <i>Methods of Information in Medicine</i> , 2011 , 50, 435-44	1.5	60
112	Ultra-short term HRV features as surrogates of short term HRV: a case study on mental stress detection in real life. <i>BMC Medical Informatics and Decision Making</i> , 2019 , 19, 12	3.6	54
111	User needs elicitation via analytic hierarchy process (AHP). A case study on a Computed Tomography (CT) scanner. <i>BMC Medical Informatics and Decision Making</i> , 2013 , 13, 2	3.6	52
110	Heart Rate Variability (HRV) Analysis: A Methodology for Organizational Neuroscience. <i>Organizational Research Methods</i> , 2019 , 22, 354-393	5.7	52
109	On the use of approximate entropy and sample entropy with centre of pressure time-series. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018 , 15, 116	5.3	52
108	Precision Medicine and Artificial Intelligence: A Pilot Study on Deep Learning for Hypoglycemic Events Detection based on ECG. <i>Scientific Reports</i> , 2020 , 10, 170	4.9	51
107	Evidence-based clinical engineering: Machine learning algorithms for prediction of defibrillator performance. <i>Biomedical Signal Processing and Control</i> , 2019 , 54, 101629	4.9	49
106	Are ultra-short heart rate variability features good surrogates of short-term ones? State-of-the-art review and recommendations. <i>Healthcare Technology Letters</i> , 2018 , 5, 94-100	1.9	47
105	Wearable Inertial Sensors for Fall Risk Assessment and Prediction in Older Adults: A Systematic Review and Meta-Analysis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 573-582	4.8	46

104	A convolutional neural network approach to detect congestive heart failure. <i>Biomedical Signal Processing and Control</i> , 2020 , 55, 101597	4.9	44
103	Cloud-Based Smart Health Monitoring System for Automatic Cardiovascular and Fall Risk Assessment in Hypertensive Patients. <i>Journal of Medical Systems</i> , 2015 , 39, 109	5.1	37
102	Beneficial effects of fibrin glue (Quixil) versus Lichtenstein conventional technique in inguinal hernia repair: a randomized clinical trial. <i>Hernia: the Journal of Hernias and Abdominal Wall Surgery</i> , 2014 , 18, 185-92	3.2	36
101	Totally laparoscopic gastrectomy for gastric cancer: meta-analysis of short-term outcomes. <i>Minimally Invasive Therapy and Allied Technologies</i> , 2012 , 21, 150-60	2.1	32
100	Heart rate variability and target organ damage in hypertensive patients. <i>BMC Cardiovascular Disorders</i> , 2012 , 12, 105	2.3	31
99	The Inadequacy of Regulatory Frameworks in Time of Crisis and in Low-Resource Settings: Personal Protective Equipment and COVID-19. <i>Health and Technology</i> , 2020 , 10, 1-9	2.1	29
98	Detection of mental stress due to oral academic examination via ultra-short-term HRV analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 3805-3808	0.9	28
97	Wearable technology and ECG processing for fall risk assessment, prevention and detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 7740-3	0.9	22
96	Fall Prediction in Hypertensive Patients via Short-Term HRV Analysis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 399-406	7.2	20
95	Pupillometric analysis for assessment of gene therapy in Leber Congenital Amaurosis patients. <i>BioMedical Engineering OnLine</i> , 2012 , 11, 40	4.1	20
94	HEALTH TECHNOLOGY ASSESSMENT METHODS GUIDELINES FOR MEDICAL DEVICES: HOW CAN WE ADDRESS THE GAPS? THE INTERNATIONAL FEDERATION OF MEDICAL AND BIOLOGICAL ENGINEERING PERSPECTIVE. <i>International Journal of Technology Assessment in Health Care</i> , 2018 , 34, 276-289	1.8	17
93	Beyond the User Preferences: Aligning the Prototype Design to the Users' Expectations. <i>Human Factors and Ergonomics in Manufacturing</i> , 2016 , 26, 16-39	1.4	15
92	Day-to-day variations in sleep quality affect standing balance in healthy adults. <i>Scientific Reports</i> , 2018 , 8, 17504	4.9	15
91	Is robotic right colectomy economically sustainable? a multicentre retrospective comparative study and cost analysis. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2020 , 34, 4041-4047	5.2	14
90	A machine learning model for supporting symptom-based referral and diagnosis of bronchitis and pneumonia in limited resource settings. <i>Biocybernetics and Biomedical Engineering</i> , 2021 , 41, 1288-1302	5.7	14
89	Health Technology Assessment and Biomedical Engineering: Global trends, gaps and opportunities. <i>Medical Engineering and Physics</i> , 2019 , 72, 19-26	2.4	12
88	A review of machine learning in hypertension detection and blood pressure estimation based on clinical and physiological data. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102813	4.9	12
87	Automatic Detection of Genetic Diseases in Pediatric Age Using Pupillometry. <i>IEEE Access</i> , 2020 , 8, 34949-34964	3.3	11

86	To What Extent Can We Shorten HRV Analysis in Wearable Sensing? A Case Study on Mental Stress Detection.. <i>IFMBE Proceedings</i> , 2018 , 643-646	0.2	9
85	Is Shouldice the best NON-MESH inguinal hernia repair technique? A systematic review and network metanalysis of randomized controlled trials comparing Shouldice and Desarda. <i>International Journal of Surgery</i> , 2019 , 62, 12-21	7.5	9
84	Analytic Hierarchy Process to Define the Most Important Factors and Related Technologies for Empowering Elderly People in Taking an Active Role in their Health. <i>Journal of Medical Systems</i> , 2015 , 39, 98	5.1	8
83	Automatic classifier based on heart rate variability to identify fallers among hypertensive subjects. <i>Healthcare Technology Letters</i> , 2015 , 2, 89-94	1.9	8
82	A feasibility study for the provision of electronic healthcare tools and services in areas of Greece, Cyprus and Italy. <i>BioMedical Engineering OnLine</i> , 2011 , 10, 49	4.1	8
81	WEB-BASED SYSTEM FOR ASSESSING RISK FACTORS FOR FALLS IN COMMUNITY-DWELLING ELDERLY PEOPLE USING THE ANALYTIC HIERARCHY PROCESS. <i>International Journal of the Analytic Hierarchy Process</i> , 2010 , 2,	1.2	8
80	Endovascular Treatment versus Medical Therapy for Hypertensive Patients with Renal Artery Stenosis: An Updated Systematic Review. <i>Annals of Vascular Surgery</i> , 2019 , 61, 445-454	1.7	7
79	Medical devices in Sub-Saharan Africa: optimal assistance via a computerized maintenance management system (CMMS) in Benin. <i>Health and Technology</i> , 2019 , 9, 219-232	2.1	7
78	Blood Pressure Drop Prediction by using HRV Measurements in Orthostatic Hypotension. <i>Journal of Medical Systems</i> , 2015 , 39, 143	5.1	7
77	Automatic Prediction of Falls via Heart Rate Variability and Data Mining in Hypertensive Patients: The SHARE Project Experience. <i>IFMBE Proceedings</i> , 2015 , 42-45	0.2	7
76	Short term Heart Rate Variability to predict blood pressure drops due to standing: a pilot study. <i>BMC Medical Informatics and Decision Making</i> , 2015 , 15 Suppl 3, S2	3.6	7
75	To What Extent It Is Possible to Predict Falls due to Standing Hypotension by Using HRV and Wearable Devices? Study Design and Preliminary Results from a Proof-of-Concept Study. <i>Lecture Notes in Computer Science</i> , 2014 , 167-170	0.9	7
74	Classification tree for real-life stress detection using linear Heart Rate Variability analysis. Case study: students under stress due to university examination. <i>IFMBE Proceedings</i> , 2013 , 477-480	0.2	7
73	Early stage Health Technology Assessment (HTA) of biomedical devices. The MATCH experience. <i>IFMBE Proceedings</i> , 2013 , 1525-1528	0.2	7
72	Radiomic and Genomic Machine Learning Method Performance for Prostate Cancer Diagnosis: Systematic Literature Review. <i>Journal of Medical Internet Research</i> , 2021 , 23, e22394	7.6	7
71	A pilot study for development of a novel tool for clinical decision making to identify fallers among ophthalmic patients. <i>BMC Medical Informatics and Decision Making</i> , 2015 , 15 Suppl 3, S6	3.6	6
70	Cloud-Based Remote Processing and Data-Mining Platform for Automatic Risk Assessment in Hypertensive Patients. <i>Lecture Notes in Computer Science</i> , 2014 , 155-162	0.9	6
69	Promoting harmonization of BME education in Europe: the CRH-BME Tempus project. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6522-5	0.9	6

68	Heart Rate Variability Analysis and Performance during a Repeated Mental Workload Task. <i>IFMBE Proceedings</i> , 2018 , 69-72	0.2	6
67	A Framework for Assessing Healthcare Facilities in Low-Resource Settings: Field Studies in Benin and Uganda. <i>Journal of Medical and Biological Engineering</i> , 2020 , 40, 526-534	2.2	6
66	Pre-classification process symptom questionnaire based on fuzzy logic for pulmonary function test cost reduction. <i>IFMBE Proceedings</i> , 2017 , 608-616	0.2	5
65	A framework for designing medical devices resilient to low-resource settings. <i>Globalization and Health</i> , 2021 , 17, 64	10	5
64	Donation of Medical Devices in Low-Income Countries: Preliminary Results from Field Studies. <i>IFMBE Proceedings</i> , 2020 , 423-427	0.2	5
63	Acute Mental Stress Detection via Ultra-short term HRV Analysis. <i>IFMBE Proceedings</i> , 2015 , 1068-1071	0.2	4
62	Proposal for Generic Biomedical Engineering Programs Based on European Experience. <i>IFMBE Proceedings</i> , 2011 , 1418-1421	0.2	4
61	Health Technology Assessment of Medical Devices in Low and Middle Income Countries: study design and preliminary results.. <i>IFMBE Proceedings</i> , 2018 , 225-228	0.2	4
60	Nocturnal low glucose detection in healthy elderly from one-lead ECG using convolutional denoising autoencoders. <i>Biomedical Signal Processing and Control</i> , 2020 , 62, 102054	4.9	4
59	Selection of Entropy-Measure Parameters for Force Plate-Based Human Balance Evaluation. <i>IFMBE Proceedings</i> , 2019 , 315-319	0.2	3
58	Interactive management control via analytic hierarchy process: an empirical study in a public university hospital. <i>Journal for International Business and Entrepreneurship Development</i> , 2015 , 8, 144	0.3	3
57	Heart Rate Variability in healthy people compared with patients with Congestive Heart Failure 2009 ,		3
56	The use of artificial intelligence systems in diagnosis of pneumonia via signs and symptoms: A systematic review. <i>Biomedical Signal Processing and Control</i> , 2022 , 72, 103325	4.9	3
55	A Software Tool to Support the Health Technology Assessment (HTA) and the User Need Elicitation of Medical Devices via the Analytic Hierarchy Process (AHP). <i>IFMBE Proceedings</i> , 2014 , 292-295	0.2	3
54	Early Cost-effectiveness Analysis of Electrochemotherapy as a Prospect Treatment Modality for Skin Melanoma. <i>Clinical Therapeutics</i> , 2020 , 42, 1535-1548.e2	3.5	3
53	Time adaptive ECG driven cardiovascular disease detector. <i>Biomedical Signal Processing and Control</i> , 2021 , 70, 102968	4.9	3
52	Automatic Prediction of Vascular Events by Heart Rate Variability Analysis in Hypertensive Patients. <i>IFMBE Proceedings</i> , 2015 , 74-77	0.2	2
51	Early Health Economic Assessment in Innovation Partnerships: Lessons from the European Innovation Partnership on Active and Healthy Ageing. <i>Value in Health</i> , 2015 , 18, A726	3.3	2

50	Heart rate variability and renal organ damage in hypertensive patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3825-8	0.9	2
49	Identifying fallers among ophthalmic patients using classification tree methodology. <i>PLoS ONE</i> , 2017 , 12, e0174083	3.7	2
48	Study design of a medical device pre-market assessment: a case study on electrochemotherapy 2018 , 87,		2
47	Analytic Hierarchy Process for Health Technology Assessment: A Case Study for Selecting a Maintenance Service Contract. <i>Studies in Fuzziness and Soft Computing</i> , 2013 , 275-288	0.7	2
46	Health Technology Assessment for a Service Contract: a new method for decisional tools. <i>IFMBE Proceedings</i> , 2009 , 105-108	0.2	2
45	AHP for Health Technology Assessment A CaseStudy: Prioritizing Care Approaches for Patients Suffering from Chronic Heart Failure 2009 ,		2
44	Clinical needs and technical requirements for ventilators for COVID-19 treatment critical patients: an evidence-based comparison for adult and pediatric age. <i>Health and Technology</i> , 2020 , 10, 1-9	2.1	2
43	Case Studies on the Use of Sentiment Analysis to Assess the Effectiveness and Safety of Health Technologies: A Scoping Review. <i>IEEE Access</i> , 2021 , 9, 66043-66051	3.5	2
42	Detection of melatonin-onset in real settings via wearable sensors and artificial intelligence. A pilot study. <i>Biomedical Signal Processing and Control</i> , 2021 , 65, 102386	4.9	2
41	Personalized Training via Serious Game to Improve Daily Living Skills in Pediatric Patients with Autism Spectrum Disorder.. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022 , PP,	7.2	2
40	From Syndemic Lesson after COVID-19 Pandemic to a "Systemic Clinical Risk Management" Proposal in the Perspective of the Ethics of Job Well Done.. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 19,	4.6	2
39	Acute Mental Stress Assessment via Short Term HRV Analysis in Healthy Adults: A Systematic Review. <i>IFMBE Proceedings</i> , 2015 , 1-4	0.2	1
38	Government policy and healthcare management: proposal of a shared decision-making model. <i>International Journal of Management and Decision Making</i> , 2015 , 14, 183	0.4	1
37	Evaluation of short-term effectiveness of the disease management program "Di.Pro.Di." on continuity of care of patients with congestive heart failure. <i>Journal of the American Geriatrics Society</i> , 2010 , 58, 1603-4	5.6	1
36	Investigating the Use of Wearables for Monitoring Circadian Rhythms: A Feasibility Study. <i>IFMBE Proceedings</i> , 2020 , 275-280	0.2	1
35	Application of Analytic Hierarchy Process for User Needs Elicitation: A Preliminary Study on a Device for Auto-injection of Epinephrine. <i>Lecture Notes in Computer Science</i> , 2013 , 258-264	0.9	1
34	The evaluation of medical devices: are we getting closer to solve the puzzle? A review of recent trends. <i>IFMBE Proceedings</i> , 2018 , 916-919	0.2	1
33	Early stage healthcare technology assessment 2020 , 799-806		1

32	Health technology assessment teaching for BME 2020 , 832-835		1
31	Frontiers in hemodialysis part II: Toward personalized and optimized therapy. <i>Biomedical Signal Processing and Control</i> , 2020 , 61, 102029	4.9	1
30	Embracing Change: Learnings From Implementing Multidimensional Digital Remote Monitoring in Oncology Patients at a District General Hospital During the COVID-19 Pandemic. <i>JCO Clinical Cancer Informatics</i> , 2021 , 5, 216-220	5.2	1
29	The role of ethics in science: a systematic literature review from the first wave of COVID-19. <i>Health and Technology</i> , 2021 , 11, 1-9	2.1	1
28	Blood-Gas Modelling for Artificially Ventilated Patients Using Interval Type-2 Fuzzy Logic System. <i>IFMBE Proceedings</i> , 2016 , 994-999	0.2	1
27	Preliminary Results from a Proof of Concept Study for Fall Detection via ECG Morphology. <i>IFMBE Proceedings</i> , 2016 , 205-208	0.2	1
26	Pupillometry via smartphone for low-resource settings. <i>Biocybernetics and Biomedical Engineering</i> , 2021 , 41, 891-902	5.7	1
25	Enhanced Medical and Community Face Masks with Antimicrobial Properties: A Systematic Review. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	1
24	Biomedical engineering and ethics: reflections on medical devices and PPE during the first wave of COVID-19. <i>BMC Medical Ethics</i> , 2021 , 22, 130	2.9	1
23	New intelligent network approach for monitoring physiological parameters: the case of Benin. <i>Health and Technology</i> , 2020 , 10, 1311-1322	2.1	0
22	Ultra-Short Entropy for Mental Stress Detection. <i>IFMBE Proceedings</i> , 2019 , 287-291	0.2	0
21	Estimation of the Heart Rate Variability Features via Recurrent Neural Networks. <i>IFMBE Proceedings</i> , 2019 , 335-340	0.2	0
20	Interactive management control via analytic hierarchy process (AHP). An empirical study in a public university hospital. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 555-560		0
19	Toward a Symbolic AI Approach to the WHO/ACSM Physical Activity & Sedentary Behavior Guidelines. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1776	2.6	0
18	Early health technology assessment using the MAFEIP tool. A case study on a wearable device for fall prediction in elderly patients. <i>Health and Technology</i> , 2021 , 11, 995-1002	2.1	0
17	Use of technology to prevent, detect, manage and control hypertension in sub-Saharan Africa: a systematic review.. <i>BMJ Open</i> , 2022 , 12, e058840	3	0
16	A preliminary setup model and protocol for checking electromagnetic interference between pacemakers and RFID (Radio Frequency IDentification) 2007 , 1066-1069		
15	3D-printed activated charcoal inlet filters for oxygen concentrators: A circular economy approach.. <i>Development Engineering</i> , 2022 , 7, 100094	2.5	

14	A Multi Scale Methodology for Technology Assessment. A case study on Spine Surgery 2007 , 762-765	
13	Promises and Challenges in the Use of Wearable Sensors and Nonlinear Signal Analysis for Balance and Fall Risk Assessment in Older Adults. <i>IFMBE Proceedings</i> , 2020 , 288-295	0.2
12	Main Barriers and Needs to Support Clinical Cancer Research via Health Informatics. <i>IFMBE Proceedings</i> , 2020 , 174-182	0.2
11	Day-to-day variation in sleep quality and static balance: results from an exploratory study. <i>IFMBE Proceedings</i> , 2018 , 611-614	0.2
10	Early stage Health Technology Assessment of Electrochemotherapy of skin-directed therapy for skin melanoma and Basal Cell Carcinoma. <i>IFMBE Proceedings</i> , 2018 , 727-730	0.2
9	Biomedical Engineering Education: Need for Harmonisation. <i>IFMBE Proceedings</i> , 2018 , 888-891	0.2
8	A Preliminary Model to Choose the Most Appropriate Target Population for Home Monitoring Telemedicine Interventions Basing on the Best Available Evidence. <i>Lecture Notes in Computer Science</i> , 2014 , 406-408	0.9
7	Patient safety revisited 2020 , 330-334	
6	Systematic literature review and meta-analysis: The case of medical devices and medical locations 2020 , 821-828	
5	Early Stage Healthcare Technology Assessment 2016 , 95-115	
4	A Matlab Tool to Support Systematic Literature Review with Meta-Analysis. <i>IFMBE Proceedings</i> , 2016 , 1000-1002	0.2
3	A MATLAB App to Assess, Compare and Validate New Methods Against Their Benchmarks. <i>IFMBE Proceedings</i> , 2021 , 10-21	0.2
2	Human Computer Interaction Challenges in Designing Pandemic Trace Application for the Effective Knowledge Transfer Between Science and Society Inside the Quadruple Helix Collaboration. <i>Lecture Notes in Computer Science</i> , 2021 , 390-401	0.9
1	Biomedical engineering in low- and middle-income settings: analysis of current state, challenges and best practices.. <i>Health and Technology</i> , 2022 , 1-11	2.1