

Leandro Pecchia

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6176310/leandro-pecchia-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	3D-printed activated charcoal inlet filters for oxygen concentrators: A circular economy approach.. <i>Development Engineering</i> , 2022 , 7, 100094	2.5	
120	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
119	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
118	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
117	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
116	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	
115	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
114	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
113	A framework for designing medical devices resilient to low-resource settings. <i>Globalization and Health</i> , 2021 , 17, 64	10	5
112	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
111	A MATLAB App to Assess, Compare and Validate New Methods Against Their Benchmarks. <i>IFMBE Proceedings</i> , 2021 , 10-21	0.2	
110	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
109	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	
108	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
107	Pupillometry via smartphone for low-resource settings. <i>Biocybernetics and Biomedical Engineering</i> , 2021 , 41, 891-902	5.7	1
106	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
105	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

104	Enhanced Medical and Community Face Masks with Antimicrobial Properties: A Systematic Review. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	1
103	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
102	Time adaptive ECG driven cardiovascular disease detector. <i>Biomedical Signal Processing and Control</i> , 2021 , 70, 102968	4.9	3
101	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
100	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
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	Automatic Detection of Genetic Diseases in Pediatric Age Using Pupillometry. <i>IEEE Access</i> , 2020 , 8, 34949-34964	3.5	3
97	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
96	New intelligent network approach for monitoring physiological parameters: the case of Benin. <i>Health and Technology</i> , 2020 , 10, 1311-1322	2.1	0
95	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	
94	Main Barriers and Needs to Support Clinical Cancer Research via Health Informatics. <i>IFMBE Proceedings</i> , 2020 , 174-182	0.2	
93	Investigating the Use of Wearables for Monitoring Circadian Rhythms: A Feasibility Study. <i>IFMBE Proceedings</i> , 2020 , 275-280	0.2	1
92	A convolutional neural network approach to detect congestive heart failure. <i>Biomedical Signal Processing and Control</i> , 2020 , 55, 101597	4.9	44
91	Patient safety revisited 2020 , 330-334		
90	Early stage healthcare technology assessment 2020 , 799-806		1
89	Systematic literature review and meta-analysis: The case of medical devices and medical locations 2020 , 821-828		
88	Health technology assessment teaching for BME 2020 , 832-835		1
87	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

86	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
85	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
84	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
83	Frontiers in hemodialysis part II: Toward personalized and optimized therapy. <i>Biomedical Signal Processing and Control</i> , 2020 , 61, 102029	4.9	1
82	Donation of Medical Devices in Low-Income Countries: Preliminary Results from Field Studies. <i>IFMBE Proceedings</i> , 2020 , 423-427	0.2	5
81	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
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	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
78	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
77	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
76	Ultra-Short Entropy for Mental Stress Detection. <i>IFMBE Proceedings</i> , 2019 , 287-291	0.2	0
75	Selection of Entropy-Measure Parameters for Force Plate-Based Human Balance Evaluation. <i>IFMBE Proceedings</i> , 2019 , 315-319	0.2	3
74	Estimation of the Heart Rate Variability Features via Recurrent Neural Networks. <i>IFMBE Proceedings</i> , 2019 , 335-340	0.2	0
73	Health Technology Assessment and Biomedical Engineering: Global trends, gaps and opportunities. <i>Medical Engineering and Physics</i> , 2019 , 72, 19-26	2.4	12
72	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
71	Heart Rate Variability (HRV) Analysis: A Methodology for Organizational Neuroscience. <i>Organizational Research Methods</i> , 2019 , 22, 354-393	5.7	52
70	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
69	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

68	Study design of a medical device pre-market assessment: a case study on electrochemotherapy 2018 , 87,		2
67	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
66	Heart Rate Variability Analysis and Performance during a Repeated Mental Workload Task. <i>IFMBE Proceedings</i> , 2018 , 69-72	0.2	6
65	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
64	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
63	Day-to-day variation in sleep quality and static balance: results from an exploratory study. <i>IFMBE Proceedings</i> , 2018 , 611-614	0.2	
62	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	
61	Biomedical Engineering Education: Need for Harmonisation. <i>IFMBE Proceedings</i> , 2018 , 888-891	0.2	
60	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
59	Day-to-day variations in sleep quality affect standing balance in healthy adults. <i>Scientific Reports</i> , 2018 , 8, 17504	4.9	15
58	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
57	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
56	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
55	Identifying fallers among ophthalmic patients using classification tree methodology. <i>PLoS ONE</i> , 2017 , 12, e0174083	3.7	2
54	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
53	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
52	Early Stage Healthcare Technology Assessment 2016 , 95-115		
51	Blood-Gas Modelling for Artificially Ventilated Patients Using Interval Type-2 Fuzzy Logic System. <i>IFMBE Proceedings</i> , 2016 , 994-999	0.2	1

50	A Matlab Tool to Support Systematic Literature Review with Meta-Analysis. <i>IFMBE Proceedings</i> , 2016 , 1000-1002	0.2	
49	Preliminary Results from a Proof of Concept Study for Fall Detection via ECG Morphology. <i>IFMBE Proceedings</i> , 2016 , 205-208	0.2	1
48	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
47	Acute Mental Stress Detection via Ultra-short term HRV Analysis. <i>IFMBE Proceedings</i> , 2015 , 1068-1071	0.2	4
46	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
45	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
44	Blood Pressure Drop Prediction by using HRV Measurements in Orthostatic Hypotension. <i>Journal of Medical Systems</i> , 2015 , 39, 143	5.1	7
43	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
42	Automatic Prediction of Vascular Events by Heart Rate Variability Analysis in Hypertensive Patients. <i>IFMBE Proceedings</i> , 2015 , 74-77	0.2	2
41	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
40	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
39	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
38	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
37	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
36	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
35	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
34	Automatic prediction of cardiovascular and cerebrovascular events using heart rate variability analysis. <i>PLoS ONE</i> , 2015 , 10, e0118504	3.7	88
33	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

32	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
31	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
30	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
29	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
28	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	
27	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
26	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
25	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
24	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
23	Early stage Health Technology Assessment (HTA) of biomedical devices. The MATCH experience. <i>IFMBE Proceedings</i> , 2013 , 1525-1528	0.2	7
22	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
21	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
20	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
19	Pupillometric analysis for assessment of gene therapy in Leber Congenital Amaurosis patients. <i>BioMedical Engineering OnLine</i> , 2012 , 11, 40	4.1	20
18	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
17	Heart rate variability and target organ damage in hypertensive patients. <i>BMC Cardiovascular Disorders</i> , 2012 , 12, 105	2.3	31
16	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
15	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

14	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
13	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
12	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
11	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
10	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
9	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
8	Proposal for Generic Biomedical Engineering Programs Based on European Experience. <i>IFMBE Proceedings</i> , 2011 , 1418-1421	0.2	4
7	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
6	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
5	Heart Rate Variability in healthy people compared with patients with Congestive Heart Failure 2009 ,		3
4	Health Technology Assessment for a Service Contract: a new method for decisional tools. <i>IFMBE Proceedings</i> , 2009 , 105-108	0.2	2
3	AHP for Health Technology Assessment A CaseStudy: Prioritizing Care Approaches for Patients Suffering from Chronic Heart Failure 2009 ,		2
2	A preliminary setup model and protocol for checking electromagnetic interference between pacemakers and RFID (Radio Frequency IDentification) 2007 , 1066-1069		
1	A Multi Scale Methodology for Technology Assessment. A case study on Spine Surgery 2007 , 762-765		