

Mohamed Elgendi

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.

83

papers

2,295

citations

24

h-index

46

g-index

92

ext. papers

3,274

ext. citations

4.7

avg, IF

6.07

L-index

#	Paper	IF	Citations
83	On the analysis of fingertip photoplethysmogram signals. <i>Current Cardiology Reviews</i> , 2012 , 8, 14-25	2.4	538
82	The use of photoplethysmography for assessing hypertension. <i>Npj Digital Medicine</i> , 2019 , 2, 60	15.7	147
81	Revisiting QRS detection methodologies for portable, wearable, battery-operated, and wireless ECG systems. <i>PLoS ONE</i> , 2014 , 9, e84018	3.7	131
80	Fast QRS detection with an optimized knowledge-based method: evaluation on 11 standard ECG databases. <i>PLoS ONE</i> , 2013 , 8, e73557	3.7	123
79	Optimal Signal Quality Index for Photoplethysmogram Signals. <i>Bioengineering</i> , 2016 , 3,	5.3	96
78	Systolic peak detection in acceleration photoplethysmograms measured from emergency responders in tropical conditions. <i>PLoS ONE</i> , 2013 , 8, e76585	3.7	81
77	Photoplethysmography and Deep Learning: Enhancing Hypertension Risk Stratification. <i>Biosensors</i> , 2018 , 8,	5.9	58
76	Efficient ECG Compression and QRS Detection for E-Health Applications. <i>Scientific Reports</i> , 2017 , 7, 459	4.9	51
75	Detection of a and b waves in the acceleration photoplethysmogram. <i>BioMedical Engineering OnLine</i> , 2014 , 13, 139	4.1	51
74	Hypertension Assessment via ECG and PPG Signals: An Evaluation Using MIMIC Database. <i>Diagnostics</i> , 2018 , 8,	3.8	49
73	A new, short-recorded photoplethysmogram dataset for blood pressure monitoring in China. <i>Scientific Data</i> , 2018 , 5, 180020	8.2	47
72	An optimal filter for short photoplethysmogram signals. <i>Scientific Data</i> , 2018 , 5, 180076	8.2	45
71	Detection of c, d, and e waves in the acceleration photoplethysmogram. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 117, 125-36	6.9	44
70	Can Photoplethysmography Replace Arterial Blood Pressure in the Assessment of Blood Pressure?. <i>Journal of Clinical Medicine</i> , 2018 , 7,	5.1	38
69	Cuffless Single-Site Photoplethysmography for Blood Pressure Monitoring. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	36
68	Toward Generating More Diagnostic Features from Photoplethysmogram Waveforms. <i>Diseases (Basel, Switzerland)</i> , 2018 , 6,	4.4	36
67	Hypertension Assessment Using Photoplethysmography: A Risk Stratification Approach. <i>Journal of Clinical Medicine</i> , 2018 , 8,	5.1	32

66	Multi-Site Photoplethysmography Technology for Blood Pressure Assessment: Challenges and Recommendations. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	30
65	Fast T Wave Detection Calibrated by Clinical Knowledge with Annotation of P and T Waves. <i>Sensors</i> , 2015 , 15, 17693-714	3.8	30
64	A hybrid feature selection approach for the early diagnosis of Alzheimer's disease. <i>Journal of Neural Engineering</i> , 2015 , 12, 016018	5	29
63	Robust detection of epileptic seizures based on L1-penalized robust regression of EEG signals. <i>Expert Systems With Applications</i> , 2018 , 104, 153-167	7.8	27
62	Standard terminologies for photoplethysmogram signals. <i>Current Cardiology Reviews</i> , 2012 , 8, 215-9	2.4	27
61	How Effective Is Pulse Arrival Time for Evaluating Blood Pressure? Challenges and Recommendations from a Study Using the MIMIC Database. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	25
60	Subliminal Priming-State of the Art and Future Perspectives. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2018 , 8,	2.3	25
59	Improving Remote Health Monitoring: A Low-Complexity ECG Compression Approach. <i>Diagnostics</i> , 2018 , 8,	3.8	24
58	A Proof-of-Concept Study: Simple and Effective Detection of P and T Waves in Arrhythmic ECG Signals. <i>Bioengineering</i> , 2016 , 3,	5.3	24
57	Optimization of EEG frequency bands for improved diagnosis of Alzheimer disease. <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, 6087-91	0.9	22
56	Frequency analysis of photoplethysmogram and its derivatives. <i>Computer Methods and Programs in Biomedicine</i> , 2015 , 122, 503-12	6.9	19
55	Assessing Anxiety Disorders Using Wearable Devices: Challenges and Future Directions. <i>Brain Sciences</i> , 2019 , 9,	3.4	18
54	Diagnosis of Alzheimer's disease from EEG by means of synchrony measures in optimized frequency bands. <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, 4266-70	0.9	18
53	R wave detection using Coiflets wavelets 2009 ,		17
52	A New Recommender System for 3D E-Commerce: An EEG Based Approach. <i>Journal of Advanced Management Science</i> , 2013 , 1, 61-65	2.2	17
51	Spectral analysis of the heart sounds in children with and without pulmonary artery hypertension. <i>International Journal of Cardiology</i> , 2014 , 173, 92-9	3.2	15
50	A Robust QRS Complex Detection Algorithm Using Dynamic Thresholds 2008 ,		15
49	A Six-Step Framework on Biomedical Signal Analysis for Tackling Noncommunicable Diseases: Current and Future Perspectives. <i>JMIR Biomedical Engineering</i> , 2016 , 1, e1	1.3	15

48	Arm movement speed assessment via a Kinect camera: a preliminary study in healthy subjects. <i>BioMedical Engineering OnLine</i> , 2014 , 13, 88	4.1	14
47	TERMA Framework for Biomedical Signal Analysis: An Economic-Inspired Approach. <i>Biosensors</i> , 2016 , 6,	5.9	14
46	. <i>IEEE Access</i> , 2019 , 7, 87977-87986	3.5	13
45	The Performance of Deep Neural Networks in Differentiating Chest X-Rays of COVID-19 Patients From Other Bacterial and Viral Pneumonias. <i>Frontiers in Medicine</i> , 2020 , 7, 550	4.9	13
44	Machine Learning Ranks ECG as an Optimal Wearable Biosignal for Assessing Driving Stress. <i>IEEE Access</i> , 2020 , 8, 34362-34374	3.5	11
43	On Time Domain Analysis of Photoplethysmogram Signals for Monitoring Heat Stress. <i>Sensors</i> , 2015 , 15, 24716-34	3.8	11
42	Synthetic photoplethysmogram generation using two Gaussian functions. <i>Scientific Reports</i> , 2020 , 10, 13883	4.9	11
41	The Effectiveness of Image Augmentation in Deep Learning Networks for Detecting COVID-19: A Geometric Transformation Perspective. <i>Frontiers in Medicine</i> , 2021 , 8, 629134	4.9	11
40	Less Is More in Biosignal Analysis: Compressed Data Could Open the Door to Faster and Better Diagnosis. <i>Diseases (Basel, Switzerland)</i> , 2018 , 6,	4.4	10
39	Time-domain analysis of heart sound intensity in children with and without pulmonary artery hypertension: a pilot study using a digital stethoscope. <i>Pulmonary Circulation</i> , 2014 , 4, 685-95	2.7	10
38	Heart Rate Variability and the Acceleration Plethysmogram Signals Measured at Rest. <i>Communications in Computer and Information Science</i> , 2011 , 266-277	0.3	10
37	Multimodal Photoplethysmography-Based Approaches for Improved Detection of Hypertension. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	10
36	The unique heart sound signature of children with pulmonary artery hypertension. <i>Pulmonary Circulation</i> , 2015 , 5, 631-9	2.7	9
35	Deep Learning Algorithm Classifies Heartbeat Events Based on Electrocardiogram Signals. <i>Frontiers in Physiology</i> , 2020 , 11, 569050	4.6	9
34	Advancing PPG Signal Quality and Know-How Through Knowledge Translation-From Experts to Student and Researcher. <i>Frontiers in Digital Health</i> , 2020 , 2, 619692	2.3	9
33	Eventogram: A Visual Representation of Main Events in Biomedical Signals. <i>Bioengineering</i> , 2016 , 3,	5.3	9
32	Detection of Heart Sounds in Children with and without Pulmonary Arterial Hypertension--Daubechies Wavelets Approach. <i>PLoS ONE</i> , 2015 , 10, e0143146	3.7	8
31	Premature atrial complexes detection using the Fisher Linear Discriminant 2008 ,		8

30	Effect of Subliminal Lexical Priming on the Subjective Perception of Images: A Machine Learning Approach. <i>PLoS ONE</i> , 2016 , 11, e0148332	3.7	8
29	Active right atrial emptying fraction predicts reduced survival and increased adverse events in childhood pulmonary arterial hypertension. <i>International Journal of Cardiology</i> , 2018 , 271, 306-311	3.2	8
28	Acoustic diagnosis of pulmonary hypertension: automated speech- recognition-inspired classification algorithm outperforms physicians. <i>Scientific Reports</i> , 2016 , 6, 33182	4.9	7
27	The Voice of the Heart: Vowel-Like Sound in Pulmonary Artery Hypertension. <i>Diseases (Basel, Switzerland)</i> , 2018 , 6,	4.4	6
26	Towards Investigating Global Warming Impact on Human Health Using Derivatives of Photoplethysmogram Signals. <i>International Journal of Environmental Research and Public Health</i> , 2015 , 12, 12776-91	4.6	6
25	Hyperoxia Reduces Oxygen Consumption in Children with Pulmonary Hypertension. <i>Pediatric Cardiology</i> , 2017 , 38, 959-964	2.1	5
24	Scientists need data visualization training. <i>Nature Biotechnology</i> , 2017 , 35, 990-991	44.5	5
23	Merging Digital Medicine and Economics: Two Moving Averages Unlock Biosignals for Better Health. <i>Diseases (Basel, Switzerland)</i> , 2018 , 6,	4.4	5
22	Differential effects of the blood pressure state on pulse rate variability and heart rate variability in critically ill patients. <i>Npj Digital Medicine</i> , 2021 , 4, 82	15.7	5
21	Temporal correction of detected R-peaks in ECG signals: A crucial step to improve QRS detection algorithms. <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, 522-5	0.9	4
20	Assessment of Hypertension Using Clinical Electrocardiogram Features: A First-Ever Review. <i>Frontiers in Medicine</i> , 2020 , 7, 583331	4.9	4
19	From Auditory and Visual to Immersive Neurofeedback: Application to Diagnosis of Alzheimer's Disease 2014 , 63-97		4
18	PPGSynth: An Innovative Toolbox for Synthesizing Regular and Irregular Photoplethysmography Waveforms. <i>Frontiers in Medicine</i> , 2020 , 7, 597774	4.9	3
17	Recognition of T waves in ECG signals 2009 ,		3
16	P wave demarcation in electrocardiogram 2009 ,		3
15	The Evaluation of Deep Neural Networks and X-Ray as a Practical Alternative for Diagnosis and Management of COVID-19		3
14	Impact of Data Transformation: An ECG Heartbeat Classification Approach. <i>Frontiers in Digital Health</i> , 2020 , 2, 610956	2.3	2
13	Cooperative multicasting based on superposition and layered coding. <i>IET Communications</i> , 2014 , 8, 267-277		2

12	On the effect of subliminal priming on subjective perception of images: a machine learning approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014</i> , 2014, 5438-41	0.9	2
11	Applying the APG to measure Heart Rate Variability 2010 ,		2
10	A pilot study: Can heart rate variability (HRV) be determined using short-term photoplethysmograms?. <i>F1000Research</i> , 2016 , 5, 2354	3.6	2
9	Real-Time Wireless Sonification of Brain Signals 2013 , 175-181		2
8	Measurement of Oxygen Consumption in Critically Ill Children: Breath-by-Breath Method vs Mass Spectrometry. <i>American Journal of Critical Care</i> , 2016 , 25, 243-8	1.7	2
7	Classification of blood pressure in critically ill patients using photoplethysmography and machine learning. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 208, 106222	6.9	2
6	Ethnic disparities in publicly-available pulse oximetry databases. <i>Communications Medicine</i> , 2022 , 2,		2
5	High performance EEG feature extraction for fast epileptic seizure detection 2017 ,		1
4	The Striking Need for Age Diverse Pulse Oximeter Databases.. <i>Frontiers in Medicine</i> , 2021 , 8, 782422	4.9	1
3	Machine Learning Revealed New Correlates of Chronic Pelvic Pain in Women. <i>Frontiers in Digital Health</i> , 2020 , 2, 600604	2.3	0
2	Robust Reconstruction of Electrocardiogram Using Photoplethysmography: A Subject-Based Model.. <i>Frontiers in Physiology</i> , 2022 , 13, 859763	4.6	0
1	Preliminary study for localizing c, d and e waves in photoplethysmogram signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014</i> , 2014, 62-5	0.9	