

Mohamed Elgendi

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.

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	Robust Reconstruction of Electrocardiogram Using Photoplethysmography: A Subject-Based Model.. <i>Frontiers in Physiology</i> , 2022 , 13, 859763	4.6	0
82	Ethnic disparities in publicly-available pulse oximetry databases. <i>Communications Medicine</i> , 2022 , 2,		2
81	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
80	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
79	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
78	The Striking Need for Age Diverse Pulse Oximeter Databases.. <i>Frontiers in Medicine</i> , 2021 , 8, 782422	4.9	1
77	Impact of Data Transformation: An ECG Heartbeat Classification Approach. <i>Frontiers in Digital Health</i> , 2020 , 2, 610956	2.3	2
76	PPGSynth: An Innovative Toolbox for Synthesizing Regular and Irregular Photoplethysmography Waveforms. <i>Frontiers in Medicine</i> , 2020 , 7, 597774	4.9	3
75	Cuffless Single-Site Photoplethysmography for Blood Pressure Monitoring. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	36
74	Machine Learning Ranks ECG as an Optimal Wearable Biosignal for Assessing Driving Stress. <i>IEEE Access</i> , 2020 , 8, 34362-34374	3.5	11
73	Assessment of Hypertension Using Clinical Electrocardiogram Features: A First-Ever Review. <i>Frontiers in Medicine</i> , 2020 , 7, 583331	4.9	4
72	Machine Learning Revealed New Correlates of Chronic Pelvic Pain in Women. <i>Frontiers in Digital Health</i> , 2020 , 2, 600604	2.3	0
71	Deep Learning Algorithm Classifies Heartbeat Events Based on Electrocardiogram Signals. <i>Frontiers in Physiology</i> , 2020 , 11, 569050	4.6	9
70	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
69	Synthetic photoplethysmogram generation using two Gaussian functions. <i>Scientific Reports</i> , 2020 , 10, 13883	4.9	11
68	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
67	Multimodal Photoplethysmography-Based Approaches for Improved Detection of Hypertension. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	10

66	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
65	Assessing Anxiety Disorders Using Wearable Devices: Challenges and Future Directions. <i>Brain Sciences</i> , 2019 , 9,	3.4	18
64	. <i>IEEE Access</i> , 2019 , 7, 87977-87986	3.5	13
63	The use of photoplethysmography for assessing hypertension. <i>Npj Digital Medicine</i> , 2019 , 2, 60	15.7	147
62	Multi-Site Photoplethysmography Technology for Blood Pressure Assessment: Challenges and Recommendations. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	30
61	A new, short-recorded photoplethysmogram dataset for blood pressure monitoring in China. <i>Scientific Data</i> , 2018 , 5, 180020	8.2	47
60	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
59	Improving Remote Health Monitoring: A Low-Complexity ECG Compression Approach. <i>Diagnostics</i> , 2018 , 8,	3.8	24
58	Merging Digital Medicine and Economics: Two Moving Averages Unlock Biosignals for Better Health. <i>Diseases (Basel, Switzerland)</i> , 2018 , 6,	4.4	5
57	Toward Generating More Diagnostic Features from Photoplethysmogram Waveforms. <i>Diseases (Basel, Switzerland)</i> , 2018 , 6,	4.4	36
56	The Voice of the Heart: Vowel-Like Sound in Pulmonary Artery Hypertension. <i>Diseases (Basel, Switzerland)</i> , 2018 , 6,	4.4	6
55	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
54	An optimal filter for short photoplethysmogram signals. <i>Scientific Data</i> , 2018 , 5, 180076	8.2	45
53	Hypertension Assessment Using Photoplethysmography: A Risk Stratification Approach. <i>Journal of Clinical Medicine</i> , 2018 , 8,	5.1	32
52	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
51	Can Photoplethysmography Replace Arterial Blood Pressure in the Assessment of Blood Pressure?. <i>Journal of Clinical Medicine</i> , 2018 , 7,	5.1	38
50	Photoplethysmography and Deep Learning: Enhancing Hypertension Risk Stratification. <i>Biosensors</i> , 2018 , 8,	5.9	58
49	Hypertension Assessment via ECG and PPG Signals: An Evaluation Using MIMIC Database. <i>Diagnostics</i> , 2018 , 8,	3.8	49

48	Subliminal Priming-State of the Art and Future Perspectives. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2018 , 8,	2.3	25
47	Hyperoxia Reduces Oxygen Consumption in Children with Pulmonary Hypertension. <i>Pediatric Cardiology</i> , 2017 , 38, 959-964	2.1	5
46	Efficient ECG Compression and QRS Detection for E-Health Applications. <i>Scientific Reports</i> , 2017 , 7, 459	4.9	51
45	Scientists need data visualization training. <i>Nature Biotechnology</i> , 2017 , 35, 990-991	44.5	5
44	High performance EEG feature extraction for fast epileptic seizure detection 2017 ,		1
43	Acoustic diagnosis of pulmonary hypertension: automated speech- recognition-inspired classification algorithm outperforms physicians. <i>Scientific Reports</i> , 2016 , 6, 33182	4.9	7
42	A pilot study: Can heart rate variability (HRV) be determined using short-term photoplethysmograms?. <i>F1000Research</i> , 2016 , 5, 2354	3.6	2
41	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
40	TERMA Framework for Biomedical Signal Analysis: An Economic-Inspired Approach. <i>Biosensors</i> , 2016 , 6,	5.9	14
39	Optimal Signal Quality Index for Photoplethysmogram Signals. <i>Bioengineering</i> , 2016 , 3,	5.3	96
38	Eventogram: A Visual Representation of Main Events in Biomedical Signals. <i>Bioengineering</i> , 2016 , 3,	5.3	9
37	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
36	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
35	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
34	On Time Domain Analysis of Photoplethysmogram Signals for Monitoring Heat Stress. <i>Sensors</i> , 2015 , 15, 24716-34	3.8	11
33	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
32	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
31	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

30	Frequency analysis of photoplethysmogram and its derivatives. <i>Computer Methods and Programs in Biomedicine</i> , 2015 , 122, 503-12	6.9	19
29	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
28	The unique heart sound signature of children with pulmonary artery hypertension. <i>Pulmonary Circulation</i> , 2015 , 5, 631-9	2.7	9
27	A hybrid feature selection approach for the early diagnosis of Alzheimer's disease. <i>Journal of Neural Engineering</i> , 2015 , 12, 016018	5	29
26	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
25	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
24	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
23	Revisiting QRS detection methodologies for portable, wearable, battery-operated, and wireless ECG systems. <i>PLoS ONE</i> , 2014 , 9, e84018	3.7	131
22	Detection of a and b waves in the acceleration photoplethysmogram. <i>BioMedical Engineering OnLine</i> , 2014 , 13, 139	4.1	51
21	Cooperative multicasting based on superposition and layered coding. <i>IET Communications</i> , 2014 , 8, 267-277		2
20	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</i> , 2014 , 2014, 62-5	0.9	
19	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</i> , 2014 , 2014, 5438-41	0.9	2
18	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
17	From Auditory and Visual to Immersive Neurofeedback: Application to Diagnosis of Alzheimer's Disease 2014 , 63-97		4
16	Systolic peak detection in acceleration photoplethysmograms measured from emergency responders in tropical conditions. <i>PLoS ONE</i> , 2013 , 8, e76585	3.7	81
15	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
14	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
13	Real-Time Wireless Sonification of Brain Signals 2013 , 175-181		2

12	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, 2012, 4266-70</i>	0.9	18
11	On the analysis of fingertip photoplethysmogram signals. <i>Current Cardiology Reviews, 2012, 8, 14-25</i>	2.4	538
10	Standard terminologies for photoplethysmogram signals. <i>Current Cardiology Reviews, 2012, 8, 215-9</i>	2.4	27
9	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, 2011, 2011, 6087-91</i>	0.9	22
8	Heart Rate Variability and the Acceleration Plethysmogram Signals Measured at Rest. <i>Communications in Computer and Information Science, 2011, 266-277</i>	0.3	10
7	Applying the APG to measure Heart Rate Variability 2010,		2
6	Recognition of T waves in ECG signals 2009,		3
5	P wave demarcation in electrocardiogram 2009,		3
4	R wave detection using Coiflets wavelets 2009,		17
3	A Robust QRS Complex Detection Algorithm Using Dynamic Thresholds 2008,		15
2	Premature atrial complexes detection using the Fisher Linear Discriminant 2008,		8
1	The Evaluation of Deep Neural Networks and X-Ray as a Practical Alternative for Diagnosis and Management of COVID-19		3