Gari D Clifford

List of Publications by Year
in descending order

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140	9,592	76326 40	43889 91
papers	citations	h-index	g-index

152	152	152	8230
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Socio-demographic and trauma-related predictors of depression within eight weeks of motor vehicle collision in the AURORA study. Psychological Medicine, 2022, 52, 1934-1947.	4.5	15
2	Critical appraisal of technologies to assess electrical activity during atrial fibrillation: a position paper from the European Heart Rhythm Association and European Society of Cardiology Working Group on eCardiology in collaboration with the Heart Rhythm Society, Asia Pacific Heart Rhythm Society, Latin American Heart Rhythm Society and Computing in Cardiology. Europace, 2022, 24, 313-330.	1.7	33
3	Neurocognition after motor vehicle collision and adverse post-traumatic neuropsychiatric sequelae within 8 weeks: Initial findings from the AURORA study. Journal of Affective Disorders, 2022, 298, 57-67.	4.1	6
4	An Open-Source Privacy-Preserving Large-Scale Mobile Framework for Cardiovascular Health Monitoring and Intervention Planning With an Urban African American Population of Young Adults: User-Centered Design Approach. JMIR Formative Research, 2022, 6, e25444.	1.4	1
5	The CirCor DigiScope Dataset: From Murmur Detection to Murmur Classification. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 2524-2535.	6.3	31
6	Automated analysis of facial emotions in subjects with cognitive impairment. PLoS ONE, 2022, 17, e0262527.	2.5	17
7	A Wearable Multimodal Sensing System for Tracking Changes in Pulmonary Fluid Status, Lung Sounds, and Respiratory Markers. Sensors, 2022, 22, 1130.	3.8	14
8	An Edge Computing and Ambient Data Capture System for Clinical and Home Environments. Sensors, 2022, 22, 2511.	3.8	2
9	Utilizing computer vision for facial behavior analysis in schizophrenia studies: A systematic review. PLoS ONE, 2022, 17, e0266828.	2.5	6
10	Time of trauma prospectively affects PTSD symptom severity: The impact of circadian rhythms and cortisol. Psychoneuroendocrinology, 2022, 141, 105729.	2.7	3
11	P123. Anxiety Sensitivity is a Leading Risk Factor of Severe or Widespread Pain Three Months After Motor Vehicle Collision. Biological Psychiatry, 2022, 91, S137.	1.3	0
12	The temporal relationships between sleep disturbance and autonomic dysregulation: A co-twin control study. International Journal of Cardiology, 2022, 362, 176-182.	1.7	3
13	Exploring novel algorithms for atrial fibrillation detection by driving graduate level education in medical machine learning. Physiological Measurement, 2022, 43, 074001.	2.1	5
14	Multimodal Assessment of Schizophrenia and Depression Utilizing Video, Acoustic, Locomotor, Electroencephalographic, and Heart Rate Technology: Protocol for an Observational Study. JMIR Research Protocols, 2022, 11, e36417.	1.0	9
15	Rethinking Algorithm Performance Metrics for Artificial Intelligence in Diagnostic Medicine. JAMA - Journal of the American Medical Association, 2022, 328, 329.	7.4	19
16	Deep Convolutional Neural Networks and Transfer Learning for Measuring Cognitive Impairment Using Eye-Tracking in a Distributed Tablet-Based Environment. IEEE Transactions on Biomedical Engineering, 2021, 68, 11-18.	4.2	25
17	Temporal-Framing Adaptive Network for Heart Sound Segmentation Without Prior Knowledge of State Duration. IEEE Transactions on Biomedical Engineering, 2021, 68, 650-663.	4.2	15
18	Prior sleep problems and adverse post-traumatic neuropsychiatric sequelae of motor vehicle collision in the AURORA study. Sleep, 2021, 44, .	1.1	23

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19	Generalizable Seizure Detection Model Using Generating Transferable Adversarial Features. IEEE Signal Processing Letters, 2021, 28, 568-572.	3.6	13
20	Prognostic neuroimaging biomarkers of trauma-related psychopathology: resting-state fMRI shortly after trauma predicts future PTSD and depression symptoms in the AURORA study. Neuropsychopharmacology, 2021, 46, 1263-1271.	5.4	32
21	Transfer learning from ECG to PPG for improved sleep staging from wrist-worn wearables. Physiological Measurement, 2021, 42, 044004.	2.1	26
22	CNN-Based LCD Transcription of Blood Pressure From a Mobile Phone Camera. Frontiers in Artificial Intelligence, 2021, 4, 543176.	3.4	5
23	Predicting presumed serious infection among hospitalized children on central venous lines with machine learning. Computers in Biology and Medicine, 2021, 132, 104289.	7.0	16
24	Boosting automated sleep staging performance in big datasets using population subgrouping. Sleep, 2021, 44, .	1.1	3
25	Why do strategies to strengthen primary health care succeed in some places and fail in others? Exploring local variation in the effectiveness of a community health worker managed digital health intervention in rural India. BMJ Global Health, 2021, 6, e005003.	4.7	6
26	Classification and Prediction of Post-Trauma Outcomes Related to PTSD Using Circadian Rhythm Changes Measured via Wrist-Worn Research Watch in a Large Longitudinal Cohort. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2866-2876.	6.3	16
27	eARDS: A multi-center validation of an interpretable machine learning algorithm of early onset Acute Respiratory Distress Syndrome (ARDS) among critically ill adults with COVID-19. PLoS ONE, 2021, 16, e0257056.	2.5	28
28	Development and Validation of a Model to Predict Posttraumatic Stress Disorder and Major Depression After a Motor Vehicle Collision. JAMA Psychiatry, 2021, 78, 1228.	11.0	23
29	Thalamic volume and fear extinction interact to predict acute posttraumatic stress severity. Journal of Psychiatric Research, 2021, 141, 325-332.	3.1	12
30	A prospective examination of sex differences in posttraumatic autonomic functioning. Neurobiology of Stress, 2021, 15, 100384.	4.0	10
31	Brain-Based Biotypes of Psychiatric Vulnerability in the Acute Aftermath of Trauma. American Journal of Psychiatry, 2021, 178, 1037-1049.	7.2	36
32	Atrial fibrillation detection in outpatient electrocardiogram monitoring: An algorithmic crowdsourcing approach. PLoS ONE, 2021, 16, e0259916.	2.5	8
33	Prior histories of posttraumatic stress disorder and major depression and their onset and course in the three months after a motor vehicle collision in the AURORA study. Depression and Anxiety, 2021, , .	4.1	3
34	Supervised and unsupervised machine learning for automated scoring of sleepâ€“wake and cataplexy in a mouse model of narcolepsy. Sleep, 2020, 43, .	1.1	16
35	Use of a wearable device to assess sleep and motor function in Duchenne muscular dystrophy. Muscle and Nerve, 2020, 61, 198-204.	2.2	10
36	Early Prediction of Sepsis From Clinical Data: The PhysioNet/Computing in Cardiology Challenge 2019. Critical Care Medicine, 2020, 48, 210-217.	0.9	140

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37	The AURORA Study: a longitudinal, multimodal library of brain biology and function after traumatic stress exposure. Molecular Psychiatry, 2020, 25, 283-296.	7.9	92
38	Health Literacy, Health Numeracy, and Trust in Doctor: Effects on Key Patient Health Outcomes. Journal of Consumer Affairs, 2020, 54, 3-42.	2.3	31
39	A Proxy for Detecting IUGR Based on Gestational Age Estimation in a Guatemalan Rural Population. Frontiers in Artificial Intelligence, 2020, 3, 56.	3.4	5
40	Using pulse oximetry waveforms to detect coarctation of the aorta. BioMedical Engineering OnLine, 2020, 19, 31.	2.7	5
41	Estimating birth weight from observed postnatal weights in a Guatemalan highland community. Physiological Measurement, 2020, 41, 025008.	2.1	4
42	An unbiased, efficient sleepâ€“wake detection algorithm for a population with sleep disorders: change point decoder. Sleep, 2020, 43, .	1.1	10
43	Editorial on Remote Health Monitoring: from chronic diseases to pandemics. Physiological Measurement, 2020, 41, 100401.	2.1	2
44	Classification of 12-lead ECGs: the PhysioNet/Computing in Cardiology Challenge 2020. Physiological Measurement, 2020, 41, 124003.	2.1	199
45	Remote health diagnosis and monitoring in the time of COVID-19. Physiological Measurement, 2020, 41, 10TR01.	2.1	44
46	Preventing Cardiovascular Disease Among Urban African Americans With a Mobile Health App (the) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.0	6
47	A review of fetal cardiac monitoring, with a focus on low- and middle-income countries. Physiological Measurement, 2020, 41, 11TR01.	2.1	9
48	Feasibility of Single Channel Oximetry for Mass Screening of Obstructive Sleep Apnea. EClinicalMedicine, 2019, 11, 81-88.	7.1	23
49	Rationale and Design of the Emory Healthy Aging and Emory Healthy Brain Studies. Neuroepidemiology, 2019, 53, 187-200.	2.3	27
50	SMARThealth India: A stepped-wedge, cluster randomised controlled trial of a community health worker managed mobile health intervention for people assessed at high cardiovascular disease risk in rural India. PLoS ONE, 2019, 14, e0213708.	2.5	45
51	VisMET: a passive, efficient, and sensitive assessment of visuospatial memory in healthy aging, mild cognitive impairment, and Alzheimer's disease. Learning and Memory, 2019, 26, 93-100.	1.3	28
52	Obstructive Sleep Apnea Classification in a Mixed-Disorder Elderly Male Population Using a Low-Cost Off-Body Movement Sensor. , 2019, , .		1
53	Hypoglossal Nerve Stimulation and Heart Rate Variability: Analysis of STAR Trial Responders. Otolaryngology - Head and Neck Surgery, 2019, 160, 165-171.	1.9	18
54	A review of physiological and behavioral monitoring with digital sensors for neuropsychiatric illnesses. Physiological Measurement, 2018, 39, 05TR01.	2.1	86

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55	An Interpretable Machine Learning Model for Accurate Prediction of Sepsis in the ICU. Critical Care Medicine, 2018, 46, 547-553.	0.9	494
56	Personalized heart failure severity estimates using passive smartphone data. , 2018, , .		6
57	Deep learning in the cross-time frequency domain for sleep staging from a single-lead electrocardiogram. Physiological Measurement, 2018, 39, 124005.	2.1	64
58	Cardiovascular Disease in African Americans: InnovativeÂCommunity Engagement for Research Recruitment and Impact. American Journal of Kidney Diseases, 2018, 72, S43-S46.	1.9	15
59	Multiscale network dynamics between heart rate and locomotor activity are altered in schizophrenia. Physiological Measurement, 2018, 39, 115001.	2.1	16
60	An open source benchmarked toolbox for cardiovascular waveform and interval analysis. Physiological Measurement, 2018, 39, 105004.	2.1	173
61	You Snooze, You Win: The PhysioNet/Computing in Cardiology Challenge 2018. , 2018, 45, .		83
62	Improving the Quality of Point of Care Diagnostics with Real-Time Machine Learning in Low Literacy LMIC Settings. , 2018, , .		16
63	mHealth intervention to improve the continuum of maternal and perinatal care in rural Guatemala: a pragmatic, randomized controlled feasibility trial. Reproductive Health, 2018, 15, 120.	3.1	40
64	Digital health system for personalised COPD long-term management. BMC Medical Informatics and Decision Making, 2017, 17, 19.	3.0	74
65	Monitoring fetal maturationâ€"objectives, techniques and indices of autonomic function. Physiological Measurement, 2017, 38, R61-R88.	2.1	45
66	Hypertension Disparities. JAMA Cardiology, 2017, 2, 661.	6.1	1
67	Heart rate-based window segmentation improves accuracy of classifying posttraumatic stress disorder using heart rate variability measures. Physiological Measurement, 2017, 38, 1061-1076.	2.1	24
68	Acquisition of electrocardiogram signals during magnetic resonance imaging. Physiological Measurement, 2017, 38, R119-R142.	2.1	22
69	Combining sparse coding and time-domain features for heart sound classification. Physiological Measurement, 2017, 38, 1701-1713.	2.1	70
70	Atrial fibrillation detection on compressed sensed ECG. Physiological Measurement, 2017, 38, 1405-1425.	2.1	17
71	Early sepsis detection in critical care patients using multiscale blood pressure and heart rate dynamics. Journal of Electrocardiology, 2017, 50, 739-743.	0.9	111
72	Critical questions. Journal of the American Association of Nurse Practitioners, 2017, 29, 571-580.	0.9	3

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73	Dopplerâ€based fetal heart rate analysis markers for the detection of early intrauterine growth restriction. Acta Obstetricia Et Gynecologica Scandinavica, 2017, 96, 1322-1329.	2.8	15
74	Recent advances in heart sound analysis. Physiological Measurement, 2017, 38, E10-E25.	2.1	71
75	Performance of an open-source heart sound segmentation algorithm on eight independent databases. Physiological Measurement, 2017, 38, 1730-1745.	2.1	46
76	Benchmarking heart rate variability toolboxes. Journal of Electrocardiology, 2017, 50, 744-747.	0.9	8
77	Multiscale network representation of physiological time series for early prediction of sepsis. Physiological Measurement, 2017, 38, 2235-2248.	2.1	32
78	Continuous assessment of schizophrenia using heart rate and accelerometer data. Physiological Measurement, 2017, 38, 1456-1471.	2.1	24
79	Assessment of Fetal Development Using Cardiac Valve Intervals. Frontiers in Physiology, 2017, 8, 313.	2.8	12
80	Template-based Quality Assessment of the Doppler Ultrasound Signal for Fetal Monitoring. Frontiers in Physiology, 2017, 8, 511.	2.8	11
81	Agile Development of a Smartphone App for Perinatal Monitoring in a Resource-Constrained Setting. Journal of Health Informatics in Developing Countries, 2017, 11, .	2.0	13
82	Evaluation of the fetal QT interval using non-invasive fetal ECG technology. Physiological Measurement, 2016, 37, 1392-1403.	2.1	27
83	False alarm reduction in critical care. Physiological Measurement, 2016, 37, E5-E23.	2.1	38
84	E-health in low to middle income countries. Journal of Medical Engineering and Technology, 2016, 40, 336-341.	1.4	19
85	An open-source framework for stress-testing non-invasive foetal ECG extraction algorithms. Physiological Measurement, 2016, 37, 627-648.	2.1	125
86	Automated signal quality assessment of mobile phone-recorded heart sound signals. Journal of Medical Engineering and Technology, 2016, 40, 342-355.	1.4	29
87	An mHealth monitoring system for traditional birth attendant-led antenatal risk assessment in rural Guatemala. Journal of Medical Engineering and Technology, 2016, 40, 356-371.	1.4	33
88	An open access database for the evaluation of heart sound algorithms. Physiological Measurement, 2016, 37, 2181-2213.	2.1	473
89	A practical guide to non-invasive foetal electrocardiogram extraction and analysis. Physiological Measurement, 2016, 37, R1-R35.	2.1	99
90	Machine Learning and Decision Support in Critical Care. Proceedings of the IEEE, 2016, 104, 444-466.	21.3	251

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91	The evaluation of an open source online training system for teaching 12 lead electrocardiographic interpretation. Journal of Electrocardiology, 2016, 49, 454-461.	0.9	18
92	Heart beat detection in multimodal physiological data using a hidden semi-Markov model and signal quality indices. Physiological Measurement, 2015, 36, 1717-1727.	2.1	33
93	Using computerised interactive response technology to assess electrocardiographers and for aggregating diagnoses. Journal of Electrocardiology, 2015, 48, 995-999.	0.9	6
94	Comparison of Standard and Novel Signal Analysis Approaches to Obstructive Sleep Apnea Classification. Frontiers in Bioengineering and Biotechnology, 2015, 3, 114.	4.1	13
95	Stage-independent, single lead EEG sleep spindle detection using the continuous wavelet transform and local weighted smoothing. Frontiers in Human Neuroscience, 2015, 9, 181.	2.0	52
96	The PhysioNet/Computing in Cardiology Challenge 2015: Reducing false arrhythmia alarms in the ICU. , 2015, 2015, 273-276.		81
97	Robust detection of heart beats in multimodal data. Physiological Measurement, 2015, 36, 1629-1644.	2.1	44
98	SleepAp: An Automated Obstructive Sleep Apnoea Screening Application for Smartphones. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 325-331.	6.3	78
99	Objective identification and analysis of physiological and behavioral signs of schizophrenia. Journal of Mental Health, 2015, 24, 276-282.	1.9	23
100	Comparison of three artificial models of the magnetohydrodynamic effect on the electrocardiogram. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1400-1417.	1.6	9
101	Fusing Continuous-Valued Medical Labels Using a Bayesian Model. Annals of Biomedical Engineering, 2015, 43, 2892-2902.	2.5	18
102	Impact of the presence of noise on RR interval-based atrial fibrillation detection. Journal of Electrocardiology, 2015, 48, 947-951.	0.9	49
103	Logistic Regression-HSMM-based Heart Sound Segmentation. IEEE Transactions on Biomedical Engineering, 2015, 63, 1-1.	4.2	280
104	Multimodal heart beat detection using signal quality indices. Physiological Measurement, 2015, 36, 1665-1677.	2.1	85
105	Implications of Cardiovascular Disease Risk Assessment Using the WHO/ISH Risk Prediction Charts in Rural India. PLoS ONE, 2015, 10, e0133618.	2.5	16
106	Robust fundamental frequency estimation in sustained vowels: Detailed algorithmic comparisons and information fusion with adaptive Kalman filtering. Journal of the Acoustical Society of America, 2014, 135, 2885-2901.	1.1	51
107	Out of Touch : From audio recordings to phone apps to mattress sensors, noncontact systems offer a less cumbersome way to monitor sleep.. IEEE Pulse, 2014, 5, 19-21.	0.3	3
108	Combining and benchmarking methods of foetal ECG extraction without maternal or scalp electrode data. Physiological Measurement, 2014, 35, 1569-1589.	2.1	109

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109	First steps in using machine learning on fMRI data to predict intrusive memories of traumatic film footage. Behaviour Research and Therapy, 2014, 62, 37-46.	3.1	28
110	An ECG simulator for generating maternal-foetal activity mixtures on abdominal ECG recordings. Physiological Measurement, 2014, 35, 1537-1550.	2.1	82
111	A Comparison of Single Channel Fetal ECG Extraction Methods. Annals of Biomedical Engineering, 2014, 42, 1340-1353.	2.5	145
112	A machine learning approach to multi-level ECG signal quality classification. Computer Methods and Programs in Biomedicine, 2014, 117, 435-447.	4.7	170
113	Model-based estimation of loop gain using spontaneous breathing: A validation study. Respiratory Physiology and Neurobiology, 2014, 201, 84-92.	1.6	26
114	Crowd-Sourced Annotation of ECG Signals Using Contextual Information. Annals of Biomedical Engineering, 2014, 42, 871-884.	2.5	32
115	Non-invasive fetal ECG analysis. Physiological Measurement, 2014, 35, 1521-1536.	2.1	149
116	A 1.5T MRIâ€conditional 12â€lead electrocardiogram for MRI and intraâ€MR intervention. Magnetic Resonance in Medicine, 2014, 71, 1336-1347.	3.0	48
117	SMARTHealth India: Development and Field Evaluation of a Mobile Clinical Decision Support System for Cardiovascular Diseases in Rural India. JMIR MHealth and UHealth, 2014, 2, e54.	3.7	100
118	A multifaceted strategy using mobile technology to assist rural primary healthcare doctors and frontline health workers in cardiovascular disease risk management: protocol for the SMARTHealth India cluster randomised controlled trial. Implementation Science, 2013, 8, 137.	6.9	40
119	A review of current sleep screening applications for smartphones. Physiological Measurement, 2013, 34, R29-R46.	2.1	115
120	A New Severity of Illness Scale Using a Subset of Acute Physiology and Chronic Health Evaluation Data Elements Shows Comparable Predictive Accuracy*. Critical Care Medicine, 2013, 41, 1711-1718.	0.9	184
121	Dynamic Data During Hypotensive Episode Improves Mortality Predictions Among Patients With Sepsis and Hypotension*. Critical Care Medicine, 2013, 41, 954-962.	0.9	53
122	Robust classification of neonatal apnoea-related desaturations. Physiological Measurement, 2012, 33, 1503-1516.	2.1	29
123	Signal quality and data fusion for false alarm reduction in the intensive care unit. Journal of Electrocardiology, 2012, 45, 596-603.	0.9	101
124	Multiparameter Intelligent Monitoring in Intensive Care II: A public-access intensive care unit database*. Critical Care Medicine, 2011, 39, 952-960.	0.9	1,404
125	Clinician blood pressure documentation of stable intensive care patients: An intelligent archiving agent has a higher association with future hypotension. Critical Care Medicine, 2011, 39, 1006-1014.	0.9	34
126	T-wave alternans patterns during sleep in healthy, cardiac disease, and sleep apnea patients. Journal of Electrocardiology, 2011, 44, 126-130.	0.9	11

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127	649: Comparison of abdominal sensors to a fetal scalp electrode for fetal ST analysis during labor. American Journal of Obstetrics and Gynecology, 2011, 204, S256.	1.3	1
128	A Multilead Scheme Based on Periodic Component Analysis for T-Wave Alternans Analysis in the ECG. Annals of Biomedical Engineering, 2010, 38, 2532-2541.	2.5	40
129	Synthetic ECG generation and Bayesian filtering using a Gaussian wave-based dynamical model. Physiological Measurement, 2010, 31, 1309-1329.	2.1	57
130	An artificial vector model for generating abnormal electrocardiographic rhythms. Physiological Measurement, 2010, 31, 595-609.	2.1	42
131	A comparison of subjective and mathematical estimations of fetal heart rate variability. Journal of Maternal-Fetal and Neonatal Medicine, 2008, 21, 101-104.	1.5	3
132	A Nonlinear Bayesian Filtering Framework for ECG Denoising. IEEE Transactions on Biomedical Engineering, 2007, 54, 2172-2185.	4.2	398
133	636: Entropy of fetal EKG associated with intrapartum fever. American Journal of Obstetrics and Gynecology, 2007, 197, S183.	1.3	1
134	Application of independent component analysis in removing artefacts from the electrocardiogram. Neural Computing and Applications, 2006, 15, 105-116.	5.6	166
135	A NOVEL FRAMEWORK FOR SIGNAL REPRESENTATION AND SOURCE SEPARATION: APPLICATIONS TO FILTERING AND SEGMENTATION OF BIOSIGNALS. Journal of Biological Systems, 2006, 14, 169-183.	1.4	31
136	Quantifying Errors in Spectral Estimates of HRV Due to Beat Replacement and Resampling. IEEE Transactions on Biomedical Engineering, 2005, 52, 630-638.	4.2	231
137	A dynamical model for generating synthetic electrocardiogram signals. IEEE Transactions on Biomedical Engineering, 2003, 50, 289-294.	4.2	900
138	Detection of Ectopic Beats in the Electrocardiogram Using an Auto-Associative Neural Network. Neural Processing Letters, 2001, 14, 15-25.	3.2	13
139	Classification of Normal/Abnormal Heart Sound Recordings: the PhysioNet/Computing in Cardiology Challenge 2016. , 0, , .		82
140	Dataâ€driven approach for automatic detection of aortic valve opening: B point detection from impedance cardiogram. Psychophysiology, 0, , .	2.4	2