

# Ahsan H Khandoker

## 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.

182  
papers

2,230  
citations

24  
h-index

41  
g-index

226  
ext. papers

2,919  
ext. citations

2.9  
avg, IF

5.15  
L-index

#	Paper	IF	Citations
182	Support vector machines for automated recognition of obstructive sleep apnea syndrome from ECG recordings. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2009</b> , 13, 37-48		233
181	An autonomic cloud environment for hosting ECG data analysis services. <i>Future Generation Computer Systems</i> , <b>2012</b> , 28, 147-154	7.5	152
180	Automated scoring of obstructive sleep apnea and hypopnea events using short-term electrocardiogram recordings. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2009</b> , 13, 1057-67		86
179	Complex correlation measure: a novel descriptor for Poincaré plot. <i>BioMedical Engineering OnLine</i> , <b>2009</b> , 8, 17	4.1	79
178	Wavelet-based feature extraction for support vector machines for screening balance impairments in the elderly. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2007</b> , 15, 587-97	4.8	78
177	Low-Power ECG-Based Processor for Predicting Ventricular Arrhythmia. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2016</b> , 24, 1962-1974	2.6	68
176	Identifying diabetic patients with cardiac autonomic neuropathy by heart rate complexity analysis. <i>BioMedical Engineering OnLine</i> , <b>2009</b> , 8, 3	4.1	67
175	Automated recognition of patients with obstructive sleep apnoea using wavelet-based features of electrocardiogram recordings. <i>Computers in Biology and Medicine</i> , <b>2009</b> , 39, 88-96	7	52
174	Comparison of pulse rate variability with heart rate variability during obstructive sleep apnea. <i>Medical Engineering and Physics</i> , <b>2011</b> , 33, 204-9	2.4	50
173	Investigating scale invariant dynamics in minimum toe clearance variability of the young and elderly during treadmill walking. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2008</b> , 16, 380-9	4.8	46
172	Poincaré Plot Methods for Heart Rate Variability Analysis <b>2013</b> ,		45
171	A comparative study on approximate entropy measure and poincaré plot indexes of minimum foot clearance variability in the elderly during walking. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2008</b> , 5, 4	5.3	44
170	Association of cardiac autonomic neuropathy with alteration of sympatho-vagal balance through heart rate variability analysis. <i>Medical Engineering and Physics</i> , <b>2010</b> , 32, 161-7	2.4	43
169	Clinical profiles, comorbidities and complications of type 2 diabetes mellitus in patients from United Arab Emirates. <i>BMJ Open Diabetes Research and Care</i> , <b>2017</b> , 5, e000427	4.5	39
168	Identifying Common Genetic Risk Factors of Diabetic Neuropathies. <i>Frontiers in Endocrinology</i> , <b>2015</b> , 6, 88	5.7	39
167	Defining asymmetry in heart rate variability signals using a Poincaré plot. <i>Physiological Measurement</i> , <b>2009</b> , 30, 1227-40	2.9	34
166	Sensitivity of temporal heart rate variability in Poincaré plot to changes in parasympathetic nervous system activity. <i>BioMedical Engineering OnLine</i> , <b>2011</b> , 10, 17	4.1	33

165	Detection of respiratory arousals using photoplethysmography (PPG) signal in sleep apnea patients. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2014</b> , 18, 1065-73	7.2	32
164	Touchscreen typing pattern analysis for remote detection of the depressive tendency. <i>Scientific Reports</i> , <b>2019</b> , 9, 13414	4.9	31
163	Evidence of Variabilities in EEG Dynamics During Motor Imagery-Based Multiclass Brain-Computer Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2018</b> , 26, 371-382	4.8	30
162	Progress in Brain Computer Interface: Challenges and Opportunities. <i>Frontiers in Systems Neuroscience</i> , <b>2021</b> , 15, 578875	3.5	30
161	Automated estimation of fetal cardiac timing events from Doppler ultrasound signal using hybrid models. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2014</b> , 18, 1169-77	7.2	26
160	Antepartum non-invasive evaluation of opening and closing timings of the cardiac valves in fetal cardiac cycle. <i>Medical and Biological Engineering and Computing</i> , <b>2009</b> , 47, 1075-82	3.1	24
159	Analyzing temporal variability of standard descriptors of Poincaré plots. <i>Journal of Electrocardiology</i> , <b>2010</b> , 43, 719-24	1.4	24
158	Association of cardiovascular risk using non-linear heart rate variability measures with the framingham risk score in a rural population. <i>Frontiers in Physiology</i> , <b>2013</b> , 4, 186	4.6	23
157	Cardiac rehabilitation outcomes following a 6-week program of PCI and CABG Patients. <i>Frontiers in Physiology</i> , <b>2013</b> , 4, 302	4.6	22
156	QT variability index changes with severity of cardiovascular autonomic neuropathy. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2012</b> , 16, 900-6		20
155	Understanding ageing effects by approximate entropy analysis of gait variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 1965-8		20
154	Toe clearance and velocity profiles of young and elderly during walking on sloped surfaces. <i>Journal of NeuroEngineering and Rehabilitation</i> , <b>2010</b> , 7, 18	5.3	19
153	Quantifying the Interactions between Maternal and Fetal Heart Rates by Transfer Entropy. <i>PLoS ONE</i> , <b>2015</b> , 10, e0145672	3.7	19
152	K-EmoCon, a multimodal sensor dataset for continuous emotion recognition in naturalistic conversations. <i>Scientific Data</i> , <b>2020</b> , 7, 293	8.2	19
151	Classification of sleep apnea types using wavelet packet analysis of short-term ECG signals. <i>Journal of Clinical Monitoring and Computing</i> , <b>2012</b> , 26, 1-11	2	17
150	Fetal Heart Sounds Detection Using Wavelet Transform and Fractal Dimension. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2017</b> , 5, 49	5.8	17
149	Phase asymmetry of heart rate variability signal. <i>Physiological Measurement</i> , <b>2015</b> , 36, 303-14	2.9	17
148	Risk stratification of cardiac autonomic neuropathy based on multi-lag Tone-Entropy. <i>Medical and Biological Engineering and Computing</i> , <b>2013</b> , 51, 537-46	3.1	17

147	Development of respiratory rhythms in perinatal chick embryos. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2002</b> , 131, 817-24	2.6	16
146	Investigating the changes in heart rate asymmetry (HRA) with perturbation of parasympathetic nervous system. <i>Australasian Physical and Engineering Sciences in Medicine</i> , <b>2012</b> , 35, 465-74	1.9	15
145	Cardiac rhythms of late pre-pipped and pipped chick embryos exposed to altered oxygen environments. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , <b>2003</b> , 136, 289-99	2.6	15
144	Association of Diabetes Related Complications with Heart Rate Variability among a Diabetic Population in the UAE. <i>PLoS ONE</i> , <b>2017</b> , 12, e0168584	3.7	15
143	Model-Based Estimation of Aortic and Mitral Valves Opening and Closing Timings in Developing Human Fetuses. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2016</b> , 20, 240-8	7.2	14
142	Enhanced inter-subject brain computer interface with associative sensorimotor oscillations. <i>Healthcare Technology Letters</i> , <b>2017</b> , 4, 39-43	1.9	13
141	Detecting Subclinical Diabetic Cardiac Autonomic Neuropathy by Analyzing Ventricular Repolarization Dynamics. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2016</b> , 20, 64-72	7.2	13
140	Fetal Cardiac Doppler Signal Processing Techniques: Challenges and Future Research Directions. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2017</b> , 5, 82	5.8	13
139	Adaptive technique for P and T wave delineation in electrocardiogram 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> , <b>2014</b> , 2014, 90-3	0.9	13
138	Advanced Poincaré plot analysis differentiates between hypertensive pregnancy disorders. <i>Physiological Measurement</i> , <b>2011</b> , 32, 1611-22	2.9	13
137	Genetic Associations With Diabetic Retinopathy and Coronary Artery Disease in Emirati Patients With Type-2 Diabetes Mellitus. <i>Frontiers in Endocrinology</i> , <b>2019</b> , 10, 283	5.7	12
136	Novel dynamic peak and distribution plantar pressure measures on diabetic patients during walking. <i>Gait and Posture</i> , <b>2017</b> , 51, 261-267	2.6	12
135	Predicting depressed patients with suicidal ideation from ECG recordings. <i>Medical and Biological Engineering and Computing</i> , <b>2017</b> , 55, 793-805	3.1	12
134	Modeling respiratory movement signals during central and obstructive sleep apnea events using electrocardiogram. <i>Annals of Biomedical Engineering</i> , <b>2011</b> , 39, 801-11	4.7	12
133	Analysis of maternal-fetal heart rate coupling directions with partial directed coherence. <i>Biomedical Signal Processing and Control</i> , <b>2016</b> , 30, 25-30	4.9	11
132	Maturation of the homeothermic response of heart rate to altered ambient temperature in developing chick hatchlings ( <i>Gallus gallus domesticus</i> ). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2004</b> , 286, R129-37	3.2	11
131	Validation of beat by beat fetal heart signals acquired from four-channel fetal phonocardiogram with fetal electrocardiogram in healthy late pregnancy. <i>Scientific Reports</i> , <b>2018</b> , 8, 13635	4.9	11
130	A Nanowatt Real-Time Cardiac Autonomic Neuropathy Detector. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2018</b> , 12, 739-750	5.1	10

129	A Hybrid EMD-Kurtosis Method for Estimating Fetal Heart Rate from Continuous Doppler Signals. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 641	4.6	10
128	A Comparative Study on Fetal Heart Rates Estimated from Fetal Phonography and Cardiotocography. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 764	4.6	10
127	Mobile solutions for front-line health workers in developing countries <b>2009</b> ,		10
126	Low cost ECG monitor for developing countries <b>2009</b> ,		10
125	Clinical and genetic associations of renal function and diabetic kidney disease in the United Arab Emirates: a cross-sectional study. <i>BMJ Open</i> , <b>2018</b> , 8, e020759	3	10
124	Implantable Systems for Stress Urinary Incontinence. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 2717-2732	4.7	9
123	A Nano-Watt ECG Feature Extraction Engine in 65-nm Technology. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 1099-1103	3.5	9
122	Analysis of fetal heart rate asymmetry before and after 35 weeks of gestation. <i>Biomedical Signal Processing and Control</i> , <b>2015</b> , 21, 43-48	4.9	9
121	Analyzing Systolic-Diastolic Interval Interaction Characteristics in Diabetic Cardiac Autonomic Neuropathy Progression. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , <b>2015</b> , 3, 19005-19010	3.1	9
120	Effect of ECG-derived respiration (EDR) on modeling ventricular repolarization dynamics in different physiological and psychological conditions. <i>Medical and Biological Engineering and Computing</i> , <b>2014</b> , 52, 851-60	3.1	9
119	Assessment of Fetal Development Using Cardiac Valve Intervals. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 313	4.6	8
118	. <i>IEEE Access</i> , <b>2020</b> , 8, 192727-192739	3.5	8
117	Assessing the development of fetal myocardial function by a novel Doppler myocardial performance index. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2016</b> , 2016, 3753-3756	0.9	7
116	<b>2013</b> ,		7
115	Understanding ageing effects using complexity analysis of foot-ground clearance during walking. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2013</b> , 16, 554-64	2.1	7
114	Suicidal Ideation Is Associated with Altered Variability of Fingertip Photo-Plethysmogram Signal in Depressed Patients. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 501	4.6	7
113	Temporal dynamics of the circadian heart rate following low and high volume exercise training in sedentary male subjects. <i>European Journal of Applied Physiology</i> , <b>2015</b> , 115, 2069-80	3.4	7
112	A hybrid Support Vector Machine and autoregressive model for detecting gait disorders in the elderly. <i>Neural Networks (IJCNN), International Joint Conference on</i> , <b>2007</b> ,		7

111	Power spectral analysis of ECG signals during obstructive sleep apnoea hypopnoea epochs <b>2007</b> ,		7
110	Assessment Methods of Post-stroke Gait: A Scoping Review of Technology-Driven Approaches to Gait Characterization and Analysis. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 650024	4.1	7
109	Estimating Left Ventricle Ejection Fraction Levels Using Circadian Heart Rate Variability Features and Support Vector Regression Models. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , 25, 746-754	7.2	7
108	Alterations in Maternal-Fetal Heart Rate Coupling Strength and Directions in Abnormal Fetuses. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 482	4.6	6
107	Adaptive ECG interval extraction <b>2015</b> ,		6
106	Wavelet Entropy-Based Inter-subject Associative Cortical Source Localization for Sensorimotor BCI. <i>Frontiers in Neuroinformatics</i> , <b>2019</b> , 13, 47	3.9	6
105	Automated Identification of fetal cardiac valve timings. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 3893-6	0.9	6
104	Interaction between sleep EEG and ECG signals during and after obstructive sleep apnea events with or without arousals <b>2008</b> ,		6
103	Feasibility of Non-invasive Fetal Electrocardiographic Interval Measurement in the Outpatient Clinical Setting. <i>Pediatric Cardiology</i> , <b>2019</b> , 40, 1175-1182	2.1	5
102	Ultrasound-mediated drug delivery by gas bubbles generated from a chemical reaction. <i>Journal of Drug Targeting</i> , <b>2018</b> , 26, 172-181	5.4	5
101	Methodological Comparisons of Heart Rate Variability Analysis in Patients With Type 2 Diabetes and Angiotensin Converting Enzyme Polymorphism. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2016</b> , 20, 55-63	7.2	5
100	The Effect of Ankle Support on Lower Limb Kinematics During the Y-Balance Test Using Non-linear Dynamic Measures. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 935	4.6	5
99	A continuous point measure for quantifying skull deformation in medical diagnostics. <i>Healthcare Technology Letters</i> , <b>2014</b> , 1, 56-8	1.9	5
98	Recognizing central and obstructive sleep apnea events from normal breathing events in ECG recordings <b>2008</b> ,		5
97	Tone Entropy Analysis of Foetal Heart Rate Variability. <i>Entropy</i> , <b>2015</b> , 17, 1042-1053	2.8	4
96	Model based estimation of QT intervals in non-invasive fetal ECG signals. <i>PLoS ONE</i> , <b>2020</b> , 15, e0232769	3.7	4
95	Classification of Doppler Ultrasound signal quality for the application of fetal valve motion identification <b>2015</b> ,		4
94	Multi-lag HRV analysis discriminates disease progression of post-infarct people with no diabetes versus diabetes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 2267-70	0.9	4



93	Human balance responses to perturbations in the horizontal plane. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 4058-61</i>	0.9	4
92	Identifying increased risk of post-infarct people with diabetes using multi-lag Tone-Entropy analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 25-8</i>	0.9	4
91	Smartphone-based low cost oximeter photoplethysmography <b>2010,</b>		4
90	Automatic Recognition of Obstructive Sleep Apnoea Syndrome Using Power Spectral Analysis of Electrocardiogram and Hidden Markov Models <b>2008,</b>		4
89	Regulation of maternal-fetal heart rates and coupling in mice fetuses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018, 2018, 5257-5260</i>	0.9	4
88	Fetal Cardiac Timing Events Estimation From Doppler Ultrasound Signals Using Swarm Decomposition. <i>Frontiers in Physiology, 2019, 10, 789</i>	4.6	3
87	Noninvasive Fetal Electrocardiography in the Diagnosis of Long QT Syndrome: A Case Series. <i>Fetal Diagnosis and Therapy, 2020, 47, 711-716</i>	2.4	3
86	Heart rate independent QT variability component can detect subclinical cardiac autonomic neuropathy in diabetes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 928-931</i>	0.9	3
85	Genetics of diabetic kidney disease: A follow-up study in the Arab population of the United Arab Emirates. <i>Molecular Genetics &amp; Genomic Medicine, 2019, 7, e985</i>	2.3	3
84	Detecting fetal heart sounds by means of Fractal Dimension analysis in the Wavelet domain. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 2201-2204</i>	0.9	3
83	Heart Sound Segmentation toward Automated Heart Murmur Classification in Pediatric Patents <b>2015,</b>		3
82	Transfer entropy analysis of maternal and fetal heart rate coupling. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 7865-8</i>	0.9	3
81	Effect of biosignal preprocessing and recording length on clinical decision making for cardiac autonomic neuropathy <b>2014,</b>		3
80	Investigating relative respiratory effort signals during mixed sleep apnea using photoplethysmogram. <i>Annals of Biomedical Engineering, 2013, 41, 2229-36</i>	4.7	3
79	Effect of premature activation in analyzing QT dynamics instability using QT-RR model for ventricular fibrillation and healthy subjects. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 2559-62</i>	0.9	3
78	Investigating the beat by beat phase synchronization between maternal and fetal heart rates. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 3821-4</i>	0.9	3
77	Analysis of coherence between sleep EEG and ECG signals during and after obstructive sleep apnea events. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 3876-9</i>	0.9	3
76	Heart rate variability and complexity in people with diabetes associated cardiac autonomic neuropathy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 4696-9</i>	0.9	3

75	Regulation of minimum toe clearance variability in the young and elderly during walking on sloped surfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4887-90</i>		3
74	Estimating Fetal Gestational Age Using Cardiac Valve Intervals		3
73	Reducing suicidal ideation by biofeedback-guided respiration   heart rate coherence <b>2020, 3, 1-11</b>		3
72	Estimating Fetal Age by Fetal Maternal Heart Rate Coupling Parameters. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020, 2020, 604-607</i>	0.9	3
71	Assessment of autonomic neurodevelopment in the mouse fetuses by using fetal electrocardiography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 2954-2957</i>	0.9	3
70	. <i>IEEE Access, 2021, 9, 119171-119187</i>	3.5	3
69	A novel algorithm for the prediction and detection of ventricular arrhythmia. <i>Analog Integrated Circuits and Signal Processing, 2019, 99, 413-426</i>	1.2	2
68	The Role of Serious Games in Robot Exoskeleton-Assisted Rehabilitation of Stroke Patients <b>2015, 233-254</b>		2
67	Poincaré plot analysis of heart rate variability in the diabetic patients in the UAE <b>2014,</b>		2
66	Non-invasive extraction of fetal electrocardiogram using fast independent component analysis technique <b>2014,</b>		2
65	Gait alterations in the UAE population with and without diabetic complications using both traditional and entropy measures. <i>Gait and Posture, 2017, 58, 72-77</i>	2.6	2
64	Investigating fetal myocardial function in heart anomalies by Doppler myocardial performance indices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 2197-2200</i>	0.9	2
63	<b>2015,</b>		2
62	A novel technique to investigate the effect of ageing on ventricular repolarization characteristics in healthy and LQTS subjects. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 2197-2200</i>	0.9	2
61	A multi-dimensional Hidden Markov Model approach to automated identification of fetal cardiac valve motion. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 1885-8</i>	0.9	2
60	Effect of gender and diabetes on major depressive disorder using heart rate asymmetry. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 6679-82</i>	0.9	2
59	<b>2009,</b>		2
58	Variations in the accuracy of the ECG based detection of obstructive sleep apnoea (OSA) for different numbers of ECG leads and categories of OSA events. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 3192-5</i>	0.9	2



57	Power spectral analysis for identifying the onset and termination of obstructive sleep apnoea events in ECG recordings <b>2008</b> ,		2
56	Identification of onset, maximum and termination of obstructive sleep apnoea events in single lead ECG recordings. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008</i> , 2008, 1072-5	0.9	2
55	A Wavelet-Based Approach for Screening Falls Risk in the Elderly using Support Vector Machines <b>2006</b> ,		2
54	Wavelet-based multiscale analysis of minimum toe clearance variability in the young and elderly during walking. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007</i> , 2007, 1558-61		2
53	New expression for base transit time in a bipolar transistor for all levels of injection. <i>Microelectronics Reliability</i> , <b>2001</b> , 41, 137-140	1.2	2
52	Detection of COVID-19 in smartphone-based breathing recordings: A pre-screening deep learning tool.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0262448	3.7	2
51	Discrimination Amongst Various Degrees of Left Ventricular Ejection Fraction in CAD Patients Using Circadian Heart Rate Variability Features <b>2020</b> ,		2
50	Investigating Circadian Heart Rate Variability in Coronary Artery Disease Patients with Various Degrees of Left Ventricle Ejection Fraction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2020</i> , 2020, 714-717	0.9	2
49	Revisiting Left Ventricular Ejection Fraction Levels: A Circadian Heart Rate Variability-Based Approach. <i>IEEE Access</i> , <b>2021</b> , 9, 130111-130126	3.5	2
48	Quantitative Poincaré Plot <b>2013</b> , 13-23		2
47	Arousal-Valence Classification from Peripheral Physiological Signals Using Long Short-Term Memory Networks. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021</i> , 2021, 686-689	0.9	2
46	Diagnostic accuracy of keystroke dynamics as digital biomarkers for fine motor decline in neuropsychiatric disorders: a systematic review and meta-analysis.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7690	4.9	2
45	A biomedical SoC architecture for predicting ventricular arrhythmia <b>2016</b> ,		1
44	Singular value decomposition entropy as a measure of ankle dynamics efficacy in a Y-balance test following supportive lower limb taping. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019</i> , 2019, 2439-2442	0.9	1
43	Analysis between ECG and respiration signals in type II diabetic patients in the UAE <b>2014</b> ,		1
42	<b>2015</b> ,		1
41	Relationship between heart rate variability and angiotensinogen gene polymorphism in diabetic and control individuals. <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, 6583-6	0.9	1
40	Investigating foetal heart rate asymmetry. <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, 2261-4	0.9	1

39	Estimating relative respiratory effort from features of Photo-Plethysmography signal. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 6575-8</i>	0.9	1
38	Cortical response to psycho-physiological changes in auto-adaptive robot assisted gait training. <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, 7409-12</i>	0.9	1
37	Comment on the article "Prevalence of probable obstructive sleep apnea risk and severity in a population of dental patients" by D.J. Levendowski et al. <i>Sleep and Breathing, 2009, 13, 299-300</i>	3.1	1
36	<b>2006,</b>		1
35	Non-invasive determination of electromechanical time intervals of cardiac cycle using abdominal ECG and Doppler ultrasound signals from fetal hearts <b>2007,</b>		1
34	Designing a Low-Cost ECG Sensor and Monitor: Practical Considerations and Measures <b>2016, 339-373</b>		1
33	Deep Learning Predicts Heart Failure With Preserved, Mid-Range, and Reduced Left Ventricular Ejection Fraction From Patient Clinical Profiles. <i>Frontiers in Cardiovascular Medicine, 2021, 8, 755968</i>	5.4	1
32	Monitoring Patients during Neurorehabilitation Following Central or Peripheral Nervous System Injury: Dynamic Difficulty Adaptation <b>2017, 281-296</b>		1
31	Quantification of maternal-fetal cardiac couplings in normal and abnormal pregnancies applying high resolution joint symbolic dynamics. <i>Mathematical Biosciences and Engineering, 2019, 17, 802-813</i>	2.1	1
30	Tone Entropy Analysis of Augmented Information Effects on Toe-Ground Clearance When Walking. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1218-1224</i>	4.8	1
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