

Ahsan H Khandoker

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.

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	Detection of COVID-19 in smartphone-based breathing recordings: A pre-screening deep learning tool.. <i>PLoS ONE</i> , 2022 , 17, e0262448	3.7	2
181	Privacy Aware Affective State Recognition from Visual Data. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
180	Machine Learning-Based Analysis of Digital Movement Assessment and ExerGame Scores for Parkinson's Disease Severity Estimation.. <i>Frontiers in Psychology</i> , 2022 , 13, 857249	3.4	0
179	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> , 2022 , 12, 7690	4.9	2
178	Deep Learning Predicts Heart Failure With Preserved, Mid-Range, and Reduced Left Ventricular Ejection Fraction From Patient Clinical Profiles. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 755968	5.4	1
177	Genetic Variants and Their Associations to Type 2 Diabetes Mellitus Complications in the United Arab Emirates.. <i>Frontiers in Endocrinology</i> , 2021 , 12, 751885	5.7	
176	Biomedical computing in the Arab world. <i>Communications of the ACM</i> , 2021 , 64, 108-113	2.5	
175	Assessment Methods of Post-stroke Gait: A Scoping Review of Technology-Driven Approaches to Gait Characterization and Analysis. <i>Frontiers in Neurology</i> , 2021 , 12, 650024	4.1	7
174	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> , 2021 , 25, 746-754	7.2	7
173	. <i>IEEE Access</i> , 2021 , 9, 119171-119187	3.5	3
172	Thyroid Nodule Cell Classification in Cytology Images Using Transfer Learning Approach. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 539-549	0.4	0
171	. <i>IEEE Access</i> , 2021 , 9, 65369-65379	3.5	0
170	Revisiting Left Ventricular Ejection Fraction Levels: A Circadian Heart Rate Variability-Based Approach. <i>IEEE Access</i> , 2021 , 9, 130111-130126	3.5	2
169	Investigating myocardial performance in normal and sick fetuses by abdominal Doppler signal derived indices. <i>Current Research in Physiology</i> , 2021 , 4, 29-38	1.8	
168	Progress in Brain Computer Interface: Challenges and Opportunities. <i>Frontiers in Systems Neuroscience</i> , 2021 , 15, 578875	3.5	30
167	Effect of Valproic Acid on Maternal - Fetal Heart Rates and Coupling in Mice on Embryonic day 15.5 (E15.5). <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 5504-5507	0.9	0
166	Swarm Decomposition of Abdominal Signals for Non-invasive Fetal ECG Extraction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 775-778	0.9	

165	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, 2021, 1104-1107</i>	0.9	2
164	A Comparative Study of Arousal and Valence Dimensional Variations for Emotion Recognition Using Peripheral Physiological Signals Acquired from Wearable Sensors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021, 2021, 1104-1107</i>	0.9	0
163	Model based estimation of QT intervals in non-invasive fetal ECG signals. <i>PLoS ONE, 2020, 15, e0232769</i>	3.7	4
162	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
161	Care4MyHeart-PSG: A Personalized Serious Game Platform to Empower Phase III Cardiac Rehabilitation of Cardiovascular Disease Patients in UAE. <i>Lecture Notes in Computer Science, 2020, 233-250</i>	0.9	0
160	Reducing suicidal ideation by biofeedback-guided respiration [heart rate coherence] <i>2020, 3, 1-11</i>		3
159	Discrimination Amongst Various Degrees of Left Ventricular Ejection Fraction in CAD Patients Using Circadian Heart Rate Variability Features <i>2020,</i>		2
158	K-EmoCon, a multimodal sensor dataset for continuous emotion recognition in naturalistic conversations. <i>Scientific Data, 2020, 7, 293</i>	8.2	19
157	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
156	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, 2020, 714-717</i>	0.9	2
155	. <i>IEEE Access, 2020, 8, 192727-192739</i>	3.5	8
154	Touchscreen typing pattern analysis for remote detection of the depressive tendency. <i>Scientific Reports, 2019, 9, 13414</i>	4.9	31
153	Feasibility of Non-invasive Fetal Electrocardiographic Interval Measurement in the Outpatient Clinical Setting. <i>Pediatric Cardiology, 2019, 40, 1175-1182</i>	2.1	5
152	Fetal Cardiac Timing Events Estimation From Doppler Ultrasound Signals Using Swarm Decomposition. <i>Frontiers in Physiology, 2019, 10, 789</i>	4.6	3
151	Genetic Associations With Diabetic Retinopathy and Coronary Artery Disease in Emirati Patients With Type-2 Diabetes Mellitus. <i>Frontiers in Endocrinology, 2019, 10, 283</i>	5.7	12
150	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
149	Alterations in Maternal-Fetal Heart Rate Coupling Strength and Directions in Abnormal Fetuses. <i>Frontiers in Physiology, 2019, 10, 482</i>	4.6	6
148	The Effect of Ankle Support on Lower Limb Kinematics During the Y-Balance Test Using Non-linear Dynamic Measures. <i>Frontiers in Physiology, 2019, 10, 935</i>	4.6	5

147	Wavelet Entropy-Based Inter-subject Associative Cortical Source Localization for Sensorimotor BCI. <i>Frontiers in Neuroinformatics</i> , 2019 , 13, 47	3.9	6
146	Genetics of diabetic kidney disease: A follow-up study in the Arab population of the United Arab Emirates. <i>Molecular Genetics & Genomic Medicine</i> , 2019 , 7, e985	2.3	3
145	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</i> , 2019 , 2019, 2439-2442	0.9	1
144	Quantification of maternal-fetal cardiac couplings in normal and abnormal pregnancies applying high resolution joint symbolic dynamics. <i>Mathematical Biosciences and Engineering</i> , 2019 , 17, 802-813	2.1	1
143	Effect of β -blocker on maternal-fetal heart rates and coupling in pregnant mice and fetuses. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 1784-1787	0.9	1
142	Fetal Cardiac Timing Events Estimation from Doppler Ultrasound Signal Cepstrum 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> , 2019 , 2019, 4677-4681	0.9	1
141	Detection of End of T-wave in Fetal ECG Using Recurrence Plots. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 2618-2621	0.9	0
140	Evidence of Variabilities in EEG Dynamics During Motor Imagery-Based Multiclass Brain-Computer Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 371-382	4.8	30
139	A Nano-Watt ECG Feature Extraction Engine in 65-nm Technology. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 1099-1103	3.5	9
138	Ultrasound-mediated drug delivery by gas bubbles generated from a chemical reaction. <i>Journal of Drug Targeting</i> , 2018 , 26, 172-181	5.4	5
137	A Nanowatt Real-Time Cardiac Autonomic Neuropathy Detector. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 739-750	5.1	10
136	The Influence of Pharmacological Autonomic Blockades on Multi-Scale Measures of Heart Rate Variability. <i>IFMBE Proceedings</i> , 2018 , 462-465	0.2	
135	Investigating the Relationship between the Ratings of Perceived Exertion and Tone-Entropy of Heart Rate Variability during a Graded Exercise. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 5286-5289	0.9	
134	Clinical and genetic associations of renal function and diabetic kidney disease in the United Arab Emirates: a cross-sectional study. <i>BMJ Open</i> , 2018 , 8, e020759	3	10
133	Preliminary Evaluation of Fetal Congenital Heart Defects Changes on Fetal-Maternal Heart Rate Coupling Strength. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 251-254	0.9	
132	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</i> , 2018 , 2018, 5257-5260	0.9	4
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> , 2018 , 8, 13635	4.9	11
130	Enhanced inter-subject brain computer interface with associative sensorimotor oscillations. <i>Healthcare Technology Letters</i> , 2017 , 4, 39-43	1.9	13

129	Implantable Systems for Stress Urinary Incontinence. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 2717-2732	4.3	9
128	Clinical profiles, comorbidities and complications of type 2 diabetes mellitus in patients from United Arab Emirates. <i>BMJ Open Diabetes Research and Care</i> , 2017 , 5, e000427	4.5	39
127	Gait alterations in the UAE population with and without diabetic complications using both traditional and entropy measures. <i>Gait and Posture</i> , 2017 , 58, 72-77	2.6	2
126	Novel dynamic peak and distribution plantar pressure measures on diabetic patients during walking. <i>Gait and Posture</i> , 2017 , 51, 261-267	2.6	12
125	Predicting depressed patients with suicidal ideation from ECG recordings. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 793-805	3.1	12
124	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</i> , 2017 , 2017, 2197-2200	0.9	2
123	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</i> , 2017 , 2017, 2201-2204	0.9	3
122	Assessment of Fetal Development Using Cardiac Valve Intervals. <i>Frontiers in Physiology</i> , 2017 , 8, 313	4.6	8
121	Suicidal Ideation Is Associated with Altered Variability of Fingertip Photo-Plethysmogram Signal in Depressed Patients. <i>Frontiers in Physiology</i> , 2017 , 8, 501	4.6	7
120	A Hybrid EMD-Kurtosis Method for Estimating Fetal Heart Rate from Continuous Doppler Signals. <i>Frontiers in Physiology</i> , 2017 , 8, 641	4.6	10
119	A Comparative Study on Fetal Heart Rates Estimated from Fetal Phonography and Cardiotocography. <i>Frontiers in Physiology</i> , 2017 , 8, 764	4.6	10
118	Fetal Heart Sounds Detection Using Wavelet Transform and Fractal Dimension. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017 , 5, 49	5.8	17
117	Fetal Cardiac Doppler Signal Processing Techniques: Challenges and Future Research Directions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017 , 5, 82	5.8	13
116	Association of Diabetes Related Complications with Heart Rate Variability among a Diabetic Population in the UAE. <i>PLoS ONE</i> , 2017 , 12, e0168584	3.7	15
115	Monitoring Patients during Neurorehabilitation Following Central or Peripheral Nervous System Injury: Dynamic Difficulty Adaptation 2017 , 281-296		1
114	Introduction to ECG Time Series Variability Analysis: A Simple Overview 2017 , 1-12		
113	Low-Power ECG-Based Processor for Predicting Ventricular Arrhythmia. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2016 , 24, 1962-1974	2.6	68
112	Analysis of maternal/fetal heart rate coupling directions with partial directed coherence. <i>Biomedical Signal Processing and Control</i> , 2016 , 30, 25-30	4.9	11

111	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
110	Identifying depressed patients with and without suicidal ideation by finger photo-plethysmography. <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	
109	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, 2016, 2016, 3753-3756</i>	0.9	7
108	A biomedical SoC architecture for predicting ventricular arrhythmia 2016,		1
107	Model-Based Estimation of Aortic and Mitral Valves Opening and Closing Timings in Developing Human Fetuses. <i>IEEE Journal of Biomedical and Health Informatics, 2016, 20, 240-8</i>	7.2	14
106	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, 2016, 20, 55-63</i>	7.2	5
105	Detecting Subclinical Diabetic Cardiac Autonomic Neuropathy by Analyzing Ventricular Repolarization Dynamics. <i>IEEE Journal of Biomedical and Health Informatics, 2016, 20, 64-72</i>	7.2	13
104	Designing a Low-Cost ECG Sensor and Monitor: Practical Considerations and Measures 2016, 339-373		1
103	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
102	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
101	Tone Entropy Analysis of Foetal Heart Rate Variability. <i>Entropy, 2015, 17, 1042-1053</i>	2.8	4
100	The Role of Serious Games in Robot Exoskeleton-Assisted Rehabilitation of Stroke Patients 2015, 233-254		2
99	Adaptive ECG interval extraction 2015,		6
98	2015,		2
97	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, 2015, 2015, 2796-9</i>	0.9	2
96	Heart Sound Segmentation toward Automated Heart Murmur Classification in Pediatric Patients 2015,		3
95	Identifying Common Genetic Risk Factors of Diabetic Neuropathies. <i>Frontiers in Endocrinology, 2015, 6, 88</i>	5.7	39
94	Temporal dynamics of the circadian heart rate following low and high volume exercise training in sedentary male subjects. <i>European Journal of Applied Physiology, 2015, 115, 2069-80</i>	3.4	7

93	Analysis of fetal heart rate asymmetry before and after 35 weeks of gestation. <i>Biomedical Signal Processing and Control</i> , 2015 , 21, 43-48	4.9	9
92	2015 ,		1
91	Classification of Doppler Ultrasound signal quality for the application of fetal valve motion identification 2015 ,		4
90	Analyzing Systolic-Diastolic Interval Interaction Characteristics in Diabetic Cardiac Autonomic Neuropathy Progression. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2015 , 3, 19005 ³ 10		9
89	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> , 2015 , 2015, 2367-70	0.9	4
88	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</i> , 2015 , 2015, 7865-8	0.9	3
87	Phase asymmetry of heart rate variability signal. <i>Physiological Measurement</i> , 2015 , 36, 303-14	2.9	17
86	Quantifying the Interactions between Maternal and Fetal Heart Rates by Transfer Entropy. <i>PLoS ONE</i> , 2015 , 10, e0145672	3.7	19
85	Detection of respiratory arousals using photoplethysmography (PPG) signal in sleep apnea patients. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1065-73	7.2	32
84	Analysis between ECG and respiration signals in type II diabetic patients in the UAE 2014 ,		1
83	Poincaré plot analysis of heart rate variability in the diabetic patients in the UAE 2014 ,		2
82	Automated estimation of fetal cardiac timing events from Doppler ultrasound signal using hybrid models. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2014 , 18, 1169-77	7.2	26
81	Non-invasive extraction of fetal electrocardiogram using fast independent component analysis technique 2014 ,		2
80	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> , 2014 , 52, 851-60	3.1	9
79	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</i> , 2014 , 2014, 1895-8	0.9	2
78	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</i> , 2014 , 2014, 1103-6	0.9	1
77	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</i> , 2014 , 2014, 2261-4	0.9	1
76	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> , 2014 , 2014, 90-3	0.9	13

75	A continuous point measure for quantifying skull deformation in medical diagnostics. <i>Healthcare Technology Letters</i> , 2014 , 1, 56-8	1.9	5
74	Effect of biosignal preprocessing and recording length on clinical decision making for cardiac autonomic neuropathy 2014 ,		3
73	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</i> , 2014 , 2014, 6679-82	0.9	2
72	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</i> , 2014 , 2014, 4058-61	0.9	4
71	2013 ,		7
70	Understanding ageing effects using complexity analysis of foot-ground clearance during walking. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16, 554-64	2.1	7
69	Risk stratification of cardiac autonomic neuropathy based on multi-lag Tone-Entropy. <i>Medical and Biological Engineering and Computing</i> , 2013 , 51, 537-46	3.1	17
68	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</i> , 2013 , 2013, 6575-8	0.9	1
67	Effect of using ECG derived respiration (EDR) signal in linear parametric QT-RR modeling. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 1968-71	0.9	0
66	Poincaré Plot Methods for Heart Rate Variability Analysis 2013 ,		45
65	Investigating relative respiratory effort signals during mixed sleep apnea using photoplethysmogram. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 2229-36	4.7	3
64	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> , 2013 , 4, 186	4.6	23
63	Cardiac rehabilitation outcomes following a 6-week program of PCI and CABG Patients. <i>Frontiers in Physiology</i> , 2013 , 4, 302	4.6	22
62	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</i> , 2013 , 2013, 3773-6	0.9	3
61	Multi-scale Tone Entropy in differentiating physiologic and synthetic RR time series. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6135-8	0.9	
60	Evaluating cardiovascular risk using the tone-entropy algorithm. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 6139-41	0.9	
59	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</i> , 2013 , 2013, 3821-4	0.9	3
58	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> , 2013 , 2013, 3893-6	0.9	6

57	Segmented Poincaré Plot Analysis and Lagged Segmented Poincaré Plot Analysis 2013 , 93-129		
56	Poincaré Plot Interpretation of HRV Using Physiological Model 2013 , 25-46		
55	Heart Rate Asymmetry Analysis Using Poincaré Plot 2013 , 69-91		
54	Quantitative Poincaré Plot 2013 , 13-23		2
53	Poincaré Plot in Capturing Nonlinear Temporal Dynamics of HRV 2013 , 47-68		1
52	Classification of sleep apnea types using wavelet packet analysis of short-term ECG signals. <i>Journal of Clinical Monitoring and Computing</i> , 2012 , 26, 1-11	2	17
51	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</i> , 2012 , 2012, 25-8	0.9	4
50	QT variability index changes with severity of cardiovascular autonomic neuropathy. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 900-6		20
49	Investigating the changes in heart rate asymmetry (HRA) with perturbation of parasympathetic nervous system. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2012 , 35, 465-74	1.9	15
48	An autonomic cloud environment for hosting ECG data analysis services. <i>Future Generation Computer Systems</i> , 2012 , 28, 147-154	7.5	152
47	An Intelligent Algorithm for Home Sleep Apnoea Test Device 2012 , 1445-1459		
46	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</i> , 2011 , 2011, 7409-12	0.9	1
45	Modeling respiratory movement signals during central and obstructive sleep apnea events using electrocardiogram. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 801-11	4.7	12
44	Sensitivity of temporal heart rate variability in Poincaré plot to changes in parasympathetic nervous system activity. <i>BioMedical Engineering OnLine</i> , 2011 , 10, 17	4.1	33
43	Comparison of pulse rate variability with heart rate variability during obstructive sleep apnea. <i>Medical Engineering and Physics</i> , 2011 , 33, 204-9	2.4	50
42	Advanced Poincaré plot analysis differentiates between hypertensive pregnancy disorders. <i>Physiological Measurement</i> , 2011 , 32, 1611-22	2.9	13
41	Smartphone-based low cost oximeter photoplethysmography 2010 ,		4
40	Association of cardiac autonomic neuropathy with alteration of sympatho-vagal balance through heart rate variability analysis. <i>Medical Engineering and Physics</i> , 2010 , 32, 161-7	2.4	43

39	Analyzing temporal variability of standard descriptors of Poincaré plots. <i>Journal of Electrocardiology</i> , 2010 , 43, 719-24	1.4	24
38	Toe clearance and velocity profiles of young and elderly during walking on sloped surfaces. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2010 , 7, 18	5.3	19
37	2009 ,		2
36	Support vector machines for automated recognition of obstructive sleep apnea syndrome from ECG recordings. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009 , 13, 37-48		233
35	Automated scoring of obstructive sleep apnea and hypopnea events using short-term electrocardiogram recordings. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009 , 13, 1057-67		86
34	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</i> , 2009 , 13, 299-300	3.1	1
33	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> , 2009 , 47, 1075-82	3.1	24
32	Automated recognition of patients with obstructive sleep apnoea using wavelet-based features of electrocardiogram recordings. <i>Computers in Biology and Medicine</i> , 2009 , 39, 88-96	7	52
31	Defining asymmetry in heart rate variability signals using a Poincaré plot. <i>Physiological Measurement</i> , 2009 , 30, 1227-40	2.9	34
30	Complex correlation measure: a novel descriptor for Poincaré plot. <i>BioMedical Engineering OnLine</i> , 2009 , 8, 17	4.1	79
29	Identifying diabetic patients with cardiac autonomic neuropathy by heart rate complexity analysis. <i>BioMedical Engineering OnLine</i> , 2009 , 8, 3	4.1	67
28	Mobile solutions for front-line health workers in developing countries 2009 ,		10
27	Low cost ECG monitor for developing countries 2009 ,		10
26	Machine Learning for Designing an Automated Medical Diagnostic System 2009 , 544-559		
25	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> , 2008 , 16, 380-9	4.8	46
24	Automatic Recognition of Obstructive Sleep Apnoea Syndrome Using Power Spectral Analysis of Electrocardiogram and Hidden Markov Models 2008 ,		4
23	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</i> , 2008 , 2008, 3492-5	0.9	2
22	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</i> , 2008 , 2008, 3876-9	0.9	3

21	Power spectral analysis for identifying the onset and termination of obstructive sleep apnoea events in ECG recordings 2008 ,		2
20	Recognizing central and obstructive sleep apnea events from normal breathing events in ECG recordings 2008 ,		5
19	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> , 1072-5	0.9	2
18	Interaction between sleep EEG and ECG signals during and after obstructive sleep apnea events with or without arousals 2008 ,		6
17	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</i> , 2008, 4696-9	0.9	3
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