

Herbert F Jelinek

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/218797/herbert-f-jelinek-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

223
papers

4,487
citations

30
h-index

61
g-index

252
ext. papers

5,392
ext. citations

3.3
avg, IF

5.74
L-index

#	Paper	IF	Citations
223	Immune response to SARS-CoV-2 variants: A focus on severity, susceptibility, and preexisting immunity.. <i>Journal of Infection and Public Health</i> , 2022 , 15, 277-288	7.4	2
222	Travel ban effects on SARS-CoV-2 transmission lineages in the UAE as inferred by genomic epidemiology.. <i>PLoS ONE</i> , 2022 , 17, e0264682	3.7	0
221	Emerging point of care devices and artificial intelligence: Prospects and challenges for public health. <i>Smart Health</i> , 2022 , 24, 100279	2.1	0
220	Allelic Variants Within the ABO Blood Group Phenotype Confer Protection Against Critical COVID-19 Hospital Presentation.. <i>Frontiers in Medicine</i> , 2021 , 8, 759648	4.9	0
219	Genetic Studies of Metabolic Syndrome in Arab Populations: A Systematic Review and Meta-Analysis. <i>Frontiers in Genetics</i> , 2021 , 12, 733746	4.5	1
218	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
217	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	
216	Human SHC-transforming protein 1 and its isoforms p66shc: A novel marker for prediabetes. <i>Journal of Diabetes Investigation</i> , 2021 , 12, 1881-1889	3.9	0
215	Evolution, Ecology, and Zoonotic Transmission of Betacoronaviruses: A Review. <i>Frontiers in Veterinary Science</i> , 2021 , 8, 644414	3.1	6
214	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
213	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
212	Revisiting Left Ventricular Ejection Fraction Levels: A Circadian Heart Rate Variability-Based Approach. <i>IEEE Access</i> , 2021 , 9, 130111-130126	3.5	2
211	Reliability of heart-rate-variability features derived from ultra-short ECG recordings and their validity in the assessment of cardiac autonomic neuropathy. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102651	4.9	4
210	Short-term deceleration capacity of heart rate: a sensitive marker of cardiac autonomic dysfunction in idiopathic Parkinson's disease. <i>Clinical Autonomic Research</i> , 2021 , 31, 729-736	4.3	0
209	Particularities of Forest Dynamics Using Higuchi Dimension. Paríng Mountains as a Case Study. <i>Fractal and Fractional</i> , 2021 , 5, 96	3	1
208	HLA repertoire of 115 UAE nationals infected with SARS-CoV-2. <i>Human Immunology</i> , 2021 , 83, 1-1	2.3	0
207	Determination of Heart Rate Changes using Simulated Head Up Tilt Test for Syncope Patient Assessment. <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, 4273-4276	0.9	

206	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
205	Genetics of type 2 diabetes and coronary artery disease and their associations with twelve cardiometabolic traits in the United Arab Emirates population. <i>Gene, 2020, 750, 144722</i>	3.8	2
204	Implication of genetic variants in overweight and obesity susceptibility among the young Arab population of the United Arab Emirates. <i>Gene, 2020, 739, 144509</i>	3.8	6
203	Clinical correlations and genetic associations of metabolic syndrome in the United Arab Emirates. <i>Gene, 2020, 738, 144476</i>	3.8	2
202	Reducing suicidal ideation by biofeedback-guided respiration ã heart rate coherence 2020, 3, 1-11		3
201	Phytosterol supplements do not inhibit dipeptidyl peptidase-4. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews, 2020, 14, 1475-1478</i>	8.9	2
200	A framework to quantify controlled directed interactions in network physiology applied to cognitive function assessment. <i>Scientific Reports, 2020, 10, 18505</i>	4.9	2
199	The Effectiveness of Paced Breathing versus Game-Biofeedback on Heart Rate Variability: An Observational Study 2020,		1
198	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
197	A Clustering-Based Multi-Layer Distributed Ensemble for Neurological Diagnostics in Cloud Services. <i>IEEE Transactions on Cloud Computing, 2020, 8, 473-483</i>	3.3	4
196	Diffusion Entropy vs. Multiscale and Rnyi Entropy to Detect Progression of Autonomic Neuropathy. <i>Frontiers in Physiology, 2020, 11, 607324</i>	4.6	4
195	Reliability of a New Method to Determine Foot Arch Height for Clinicians. <i>Journal of the American Podiatric Medical Association, 2019, 109, 187-192</i>	1	
194	Increased markers of cardiac vagal activity in leucine-rich repeat kinase 2-associated Parkinson's disease. <i>Clinical Autonomic Research, 2019, 29, 603-614</i>	4.3	7
193	Dynamics of Forest Fragmentation and Connectivity Using Particle and Fractal Analysis. <i>Scientific Reports, 2019, 9, 12228</i>	4.9	20
192	Recent Deforestation Pattern Changes (2000ã2017) in the Central Carpathians: A Gray-Level Co-Occurrence Matrix and Fractal Analysis Approach. <i>Forests, 2019, 10, 308</i>	2.8	6
191	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
190	Personalised measures of obesity using waist to height ratios from an Australian health screening program. <i>Digital Health, 2019, 5, 2055207619844362</i>	4	1
189	Effect of GABA-Fortified Oolong Tea on Reducing Stress in a University Student Cohort. <i>Frontiers in Nutrition, 2019, 6, 27</i>	6.2	9

188	The Effect of Ankle Support on Lower Limb Kinematics During the Y-Balance Test Using Non-linear Dynamic Measures. <i>Frontiers in Physiology</i> , 2019 , 10, 935	4.6	5
187	Investigation of Linear and Nonlinear Properties of a Heartbeat Time Series Using Multiscale Rnyi Entropy. <i>Entropy</i> , 2019 , 21,	2.8	2
186	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
185	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
184	Minimal ensemble based on subset selection using ECG to diagnose categories of CAN. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 160, 85-94	6.9	2
183	Depression and cardiac dysautonomia in eating disorders. <i>Eating and Weight Disorders</i> , 2018 , 23, 369-374.	3.6	6
182	Vitamin D receptor gene polymorphisms among Emirati patients with type 2 diabetes mellitus. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018 , 175, 119-124	5.1	26
181	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
180	Inflammation and oxidative stress markers in diabetes and hypertension. <i>Journal of Inflammation Research</i> , 2018 , 11, 61-68	4.8	43
179	A Nanowatt Real-Time Cardiac Autonomic Neuropathy Detector. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 739-750	5.1	10
178	Citrus bioflavonoids dipeptidyl peptidase-4 inhibition compared with gliptin antidiabetic medications. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 503, 21-25	3.4	13
177	A survey of state-of-the-art methods for securing medical databases. <i>AIMS Medical Science</i> , 2018 , 5, 1-22.	0.4	2
176	Relationship Between Angiotensin Converting Enzyme Gene and Cardiac Autonomic Neuropathy Among Australian Population. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 135-146	0.4	
175	Rnyi and permutation entropy analysis for assessment of cardiac autonomic neuropathy. <i>IFMBE Proceedings</i> , 2018 , 755-758	0.2	2
174	Assessing representativeness of a rural Australian clinical database using a spatial modelling approach. <i>IFMBE Proceedings</i> , 2018 , 932-935	0.2	
173	The Influence of Pharmacological Autonomic Blockades on Multi-Scale Measures of Heart Rate Variability. <i>IFMBE Proceedings</i> , 2018 , 462-465	0.2	
172	Multistage fusion approaches based on a generative model and multivariate exponentially weighted moving average for diagnosis of cardiovascular autonomic nerve dysfunction. <i>Information Fusion</i> , 2018 , 41, 105-118	16.7	21
171	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	

170	Effects of Kinesiology Tape on Non-linear Center of Mass Dispersion During the Y Balance Test. <i>Frontiers in Physiology</i> , 2018 , 9, 1527	4.6	7
169	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
168	Automated Spatial Pattern Analysis for Identification of Foot Arch Height From 2D Foot Prints. <i>Frontiers in Physiology</i> , 2018 , 9, 1216	4.6	1
167	Dynamic signal quality index for electrocardiograms. <i>Physiological Measurement</i> , 2018 , 39, 105008	2.9	7
166	Beyond Lesion-Based Diabetic Retinopathy: A Direct Approach for Referral. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 193-200	7.2	29
165	Electrocardiogram QRS duration and associations with telomere length: A cross-sectional analysis in Australian rural diabetic and non-diabetic population. <i>Journal of Electrocardiology</i> , 2017 , 50, 450-456	1.4	2
164	Diagnostic Accuracy of Random ECG in Primary Care for Early, Asymptomatic Cardiac Autonomic Neuropathy. <i>Journal of Diabetes Science and Technology</i> , 2017 , 11, 1165-1173	4.1	4
163	A count data model for heart rate variability forecasting and premature ventricular contraction detection. <i>Signal, Image and Video Processing</i> , 2017 , 11, 1427-1435	1.6	5
162	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
161	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
160	Heart Rate Complexity Associated with Diabetic Cardiac Neuropathy 2017 , 327-344		
159	Box-Counting Method in Quantitative Analysis of Images of the Brain 2017 ,		2
158	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
157	Interaction of homocysteine, glutathione and 8-hydroxy-2Rdeoxyguanosine in metabolic syndrome progression. <i>Clinical Biochemistry</i> , 2017 , 50, 116-120	3.5	9
156	Immediate and long term effects of endurance and high intensity interval exercise on linear and nonlinear heart rate variability. <i>Journal of Science and Medicine in Sport</i> , 2017 , 20, 312-316	4.4	18
155	Predicting depressed patients with suicidal ideation from ECG recordings. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 793-805	3.1	12
154	Glucagon like peptide-1 and its receptor agonists: Their roles in management of Type 2 diabetes mellitus. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2017 , 11, 225-230	8.9	19
153	Hyperglycaemia, oxidative stress and inflammatory markers. <i>Redox Report</i> , 2017 , 22, 257-264	5.9	27

152	The association of uncoupling protein 2 (UCP2) exon 8 insertion/deletion polymorphism and ECG derived QRS duration: A cross-sectional study in an Australian rural population. <i>International Journal of Cardiology</i> , 2017 , 228, 507-510	3.2	1
151	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
150	Atrial Fibrillation Analysis for Real Time Patient Monitoring 2017 ,		1
149	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
148	Monitoring Patients during Neurorehabilitation Following Central or Peripheral Nervous System Injury: Dynamic Difficulty Adaptation 2017 , 281-296		1
147	Introduction to ECG Time Series Variability Analysis: A Simple Overview 2017 , 1-12		
146	Multiscale Complexity Measures of Heart Rate Variability—A Window on the Autonomic Nervous System Function 2017 , 187-198		
145	Associations between Genetic Polymorphisms and Heart Rate Variability 2017 , 453-466		
144	Tone—Entropy Analysis of Heart Rate Variability in Cardiac Autonomic Neuropathy 2017 , 227-248		
143	Heart Rate Variability as a Useful Parameter in Assessment of Cardiac Rehabilitation Outcome 2017 , 297-310		
142	Morphology and Fractal-Based Classifications of Neurons and Microglia. <i>Springer Series in Computational Neuroscience</i> , 2016 , 91-108	1.1	3
141	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</i> ,	0.9	3
140	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</i> , 2016 , 2016, 1842-1845	0.9	
139	Humanin: a mitochondrial signaling peptide as a biomarker for impaired fasting glucose-related oxidative stress. <i>Physiological Reports</i> , 2016 , 4, e12796	2.6	27
138	Enhancing Predictive Accuracy of Cardiac Autonomic Neuropathy Using Blood Biochemistry Features and Iterative Multitier Ensembles. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 408-15	7.2	12
137	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> , 2016 , 20, 55-63	7.2	5
136	Detecting Subclinical Diabetic Cardiac Autonomic Neuropathy by Analyzing Ventricular Repolarization Dynamics. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 64-72	7.2	13
135	A Survey of Data Mining Methods for Automated Diagnosis of Cardiac Autonomic Neuropathy Progression. <i>AIMS Medical Science</i> , 2016 , 3, 217-233	0.4	1

134	Matrix constructions of centroid sets for classification systems. <i>Filomat</i> , 2016 , 30, 2397-2403	0.7	
133	Acute-Phase Inflammatory Response to Single-Bout HIIT and Endurance Training: A Comparative Study. <i>Mediators of Inflammation</i> , 2016 , 2016, 5474837	4.3	23
132	Fractal analysis for studying the evolution of forests. <i>Chaos, Solitons and Fractals</i> , 2016 , 91, 310-318	9.3	17
131	ECG Reduction for Wearable Sensor 2016 ,		2
130	Socioeconomic status, age and heart rate variability in a Bangladeshi community. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 5283-5285	0.9	
129	A Hybrid Feature Selection With Ensemble Classification for Imbalanced Healthcare Data: A Case Study for Brain Tumor Diagnosis. <i>IEEE Access</i> , 2016 , 4, 9145-9154	3.5	77
128	Data analytics identify glycated haemoglobin co-markers for type 2 diabetes mellitus diagnosis. <i>Computers in Biology and Medicine</i> , 2016 , 75, 90-7	7	18
127	Relationship between MTHFR C677T and A1298C gene polymorphisms and complications of type 2 diabetes mellitus in an Emirati population. <i>Meta Gene</i> , 2016 , 9, 70-5	0.7	16
126	ImageJ in Computational Fractal-Based Neuroscience: Pattern Extraction and Translational Research. <i>Springer Series in Computational Neuroscience</i> , 2016 , 503-522	1.1	1
125	Box-Counting Fractal Analysis: A Primer for the Clinician. <i>Springer Series in Computational Neuroscience</i> , 2016 , 13-43	1.1	6
124	A Comparison of Nonlinear Measures for the Detection of Cardiac Autonomic Neuropathy from Heart Rate Variability. <i>Entropy</i> , 2015 , 17, 1425-1440	2.8	17
123	Oxidative stress and inflammation associated with decreased fibrinolysis as an early marker for peripheral vascular disease stratification: A clinical study. <i>Wound Medicine</i> , 2015 , 8, 24-30	2.8	
122	The Role of Serious Games in Robot Exoskeleton-Assisted Rehabilitation of Stroke Patients 2015 , 233-254		2
121	Multiscale analysis of tortuosity in retinal images using wavelets and fractal methods. <i>Pattern Recognition Letters</i> , 2015 , 68, 132-138	4.7	5
120	Prediction of game performance in Australian football using heart rate variability measures. <i>International Journal of Signal and Imaging Systems Engineering</i> , 2015 , 8, 80	3.5	10
119	2015 ,		2
118	Electrocardiogram Derived QRS Duration >120 ms is Associated With Elevated Plasma Homocysteine Levels in a Rural Australian Cross-Sectional Population. <i>Medicine (United States)</i> , 2015 , 94, e1080	1.8	4
117	Data-analytically derived flexible HbA1c thresholds for type 2 diabetes mellitus diagnostic. <i>Artificial Intelligence Research</i> , 2015 , 5,	0.3	3

116	Fractal, multifractal, and lacunarity analysis of microglia in tissue engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 51	5.8	23
115	Identifying Common Genetic Risk Factors of Diabetic Neuropathies. <i>Frontiers in Endocrinology</i> , 2015 , 6, 88	5.7	39
114	Addressing the Complexities of Big Data Analytics in Healthcare: The Diabetes Screening Case. <i>Australasian Journal of Information Systems</i> , 2015 , 19,	1.8	7
113	Complex nonlinear autonomic nervous system modulation link cardiac autonomic neuropathy and peripheral vascular disease. <i>Frontiers in Physiology</i> , 2015 , 6, 101	4.6	2
112	Inflammation, coagulation, endothelial dysfunction and oxidative stress in prediabetes--Biomarkers as a possible tool for early disease detection for rural screening. <i>Clinical Biochemistry</i> , 2015 , 48, 581-5	3.5	54
111	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> , 2015 , 115, 2069-80	3.4	7
110	Multiscale Renyi Entropy and Cardiac Autonomic Neuropathy 2015 ,		4
109	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, 19005310	3.0	9
108	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 , 2367-70	0.9	4
107	Automated multi-lesion detection for referable diabetic retinopathy in indigenous health care. <i>PLoS ONE</i> , 2015 , 10, e0127664	3.7	6
106	Multi-layer Attribute Selection and Classification Algorithm for the Diagnosis of Cardiac Autonomic Neuropathy Based on HRV Attributes. <i>AIMS Medical Science</i> , 2015 , 2, 396-409	0.4	6
105	Fractals in the Neurosciences, Part I: General Principles and Basic Neurosciences. <i>Neuroscientist</i> , 2014 , 20, 403-417	7.6	101
104	ECG Biometric with Abnormal Cardiac Conditions in Remote Monitoring System. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014 , 44, 1498-1509	7.3	45
103	Poincaré plot analysis of heart rate variability in the diabetic patients in the UAE 2014 ,		2
102	Fractal analysis of cervical intraepithelial neoplasia. <i>PLoS ONE</i> , 2014 , 9, e108457	3.7	18
101	How to Calculate Renyi Entropy from Heart Rate Variability, and Why it Matters for Detecting Cardiac Autonomic Neuropathy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014 , 2, 34	5.8	26
100	Principal component analysis of heart rate variability data in assessing 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</i> , 2014 , 2014, 6667-70	0.9	7
99	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, 6688-9	0.9	1

98	Automatic Diabetic Retinopathy detection using BossaNova representation. <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, 146-9</i>	0.9	5
97	Cardiac autonomic dysfunction in type 2 diabetes - effect of hyperglycemia and disease duration. <i>Frontiers in Endocrinology, 2014, 5, 130</i>	5.7	38
96	A continuous point measure for quantifying skull deformation in medical diagnostics. <i>Healthcare Technology Letters, 2014, 1, 56-8</i>	1.9	5
95	Effect of biosignal preprocessing and recording length on clinical decision making for cardiac autonomic neuropathy 2014,		3
94	Visualization methods for assisting detection of cardiovascular neuropathy. <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, 6675-8</i>	0.9	
93	Evaluation of normalised Renyi entropy for classification of cardiac autonomic neuropathy 2014,		1
92	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
91	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
90	Oxidative stress and triglycerides as predictors of subclinical atherosclerosis in prediabetes. <i>Redox Report, 2014, 19, 87-91</i>	5.9	33
89	Using meta-regression data mining to improve predictions of performance based on heart rate dynamics for Australian Football. <i>Applied Soft Computing Journal, 2014, 14, 81-87</i>	7.5	3
88	Diagnosis of peripheral vascular disease for diabetic foot risk assessment. <i>Wound Medicine, 2014, 4, 42-45</i>		8
87	Advancing bag-of-visual-words representations for lesion classification in retinal images. <i>PLoS ONE, 2014, 9, e96814</i>	3.7	53
86	Decision trees and multi-level ensemble classifiers for neurological diagnostics. <i>AIMS Medical Science, 2014, 1, 1-12</i>	0.4	7
85	Retinopathy of Prematurity: Fractal Analysis of Images in Different Stages of the Disease. <i>Advances in Intelligent Systems and Computing, 2013, 91-101</i>	0.4	1
84	Box-Counting and Multifractal Analysis in Neuronal and Glial Classification. <i>Advances in Intelligent Systems and Computing, 2013, 177-189</i>	0.4	5
83	Assessing the Need for Referral in Automatic Diabetic Retinopathy Detection. <i>IEEE Transactions on Biomedical Engineering, 2013, 60, 3391-8</i>	5	34
82	Validating retinal fundus image analysis algorithms: issues and a proposal 2013, 54, 3546-59		110
81	Predicting cardiac autonomic neuropathy category for diabetic data with missing values. <i>Computers in Biology and Medicine, 2013, 43, 1328-33</i>	7	19

80	An approach for Ewing test selection to support the clinical assessment of cardiac autonomic neuropathy. <i>Artificial Intelligence in Medicine</i> , 2013 , 58, 185-93	7.4	42
79	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
78	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
77	Cardiac rehabilitation outcomes following a 6-week program of PCI and CABG Patients. <i>Frontiers in Physiology</i> , 2013 , 4, 302	4.6	22
76	Complexity of heart rate variability in type 2 diabetes - effect of hyperglycemia. <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, 5558-61	0.9	8
75	Richardson's Method of Segment Counting versus Box-Counting 2013 ,		6
74	Neurons of the Human Dentate Nucleus: Box-Count Method in the Quantitative Analysis of Cell Morphology 2013 ,		2
73	Using Renyi entropy to detect early 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</i> , 2013 , 2013, 5562-5	0.9	8
72	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	
71	Angiotensin-converting enzyme gene DD genotype is associated with increased systolic blood pressure in an Australian Rural Type 2 Diabetic Cohort. <i>Hypertension Research</i> , 2013 , 36, 381-2	4.7	6
70	Empirical Investigation of Decision Tree Ensembles for Monitoring Cardiac Complications of Diabetes. <i>International Journal of Data Warehousing and Mining</i> , 2013 , 9, 1-18	1	4
69	Quantitating the subtleties of microglial morphology with fractal analysis. <i>Frontiers in Cellular Neuroscience</i> , 2013 , 7, 3	6.1	273
68	Diagnosis of oligodendroglioma: molecular and classical histological assessment in the twenty-first century. <i>Asia-Pacific Journal of Clinical Oncology</i> , 2012 , 8, 213-6	1.9	8
67	Points of interest and visual dictionaries for automatic retinal lesion detection. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 2244-53	5	89
66	Data fusion for multi-lesion Diabetic Retinopathy detection 2012 ,		12
65	Empirical investigation of consensus clustering for large ECG data sets 2012 ,		1
64	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
63	QT variability index changes with severity of cardiovascular autonomic neuropathy. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012 , 16, 900-6		20

62	Heart rate stability and decreased parasympathetic heart rate variability in healthy young adults during perceived stress. <i>International Journal of Cardiology</i> , 2012 , 156, 337-8	3.2	9
61	Retinal Image Quality Analysis for Automatic Diabetic Retinopathy Detection 2012 ,		17
60	Depression, comorbid anxiety disorders, and heart rate variability in physically healthy, unmedicated patients: implications for cardiovascular risk. <i>PLoS ONE</i> , 2012 , 7, e30777	3.7	262
59	Establishing a Reference Range for Oligodendroglioma Classification using Higuchi Dimension Analysis 2012 ,		2
58	Weka Machine Learning Classification in Identifying Autonomic Dysfunction Parameters Associated with Ace Insertion/Deletion Genotypes 2012 ,		4
57	Image Analysis of Retinal Images 2011 , 249-268		
56	The morphology and classification of ganglion cells in the rat retinae: a fractal analysis study. <i>Journal of Neuroscience Methods</i> , 2011 , 201, 281-7	3	16
55	Digoxin therapy in the elderly: pharmacokinetic considerations in nursing. <i>Geriatric Nursing</i> , 2011 , 32, 263-9	2.1	1
54	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
53	Visualisation in biomedicine as a means of data evaluation. <i>Journal of Visualization</i> , 2011 , 14, 353-359	1.6	4
52	Machine learning and pattern classification in identification of indigenous retinal pathology. <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, 5951-4	0.9	18
51	Risk stratification in heart failure using ¹²³ I-MIBG. <i>Journal of Nuclear Medicine Technology</i> , 2011 , 39, 295-301		6
50	Oxidative DNA damage and obesity in type 2 diabetes mellitus. <i>European Journal of Endocrinology</i> , 2011 , 164, 899-904	6.5	111
49	Increased total heart rate variability and enhanced cardiac vagal autonomic activity in healthy humans with sinus bradycardia. <i>Baylor University Medical Center Proceedings</i> , 2010 , 23, 368-70	0.6	20
48	8-Hydroxy-2-deoxy-guanosine identifies oxidative DNA damage in a rural prediabetes cohort. <i>Redox Report</i> , 2010 , 15, 155-60	5.9	40
47	Electric pulse frequency and magnitude of perceived sensation during electrocutaneous forearm stimulation. <i>Archives of Physical Medicine and Rehabilitation</i> , 2010 , 91, 1378-82	2.8	5
46	Vitamin E supplementation during the dry period in dairy cattle. Part II: oxidative stress following vitamin E supplementation may increase clinical mastitis incidence postpartum. <i>Journal of Dairy Science</i> , 2010 , 93, 5696-706	4	44
45	Assessment of diabetic macrovascular complications: a prediabetes model. <i>British Journal of Biomedical Science</i> , 2010 , 67, 59-66	1.6	9

44	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
43	Management of hypertension in patients with diabetes mellitus. <i>Experimental and Clinical Cardiology</i> , 2010 , 15, 5-8		12
42	Awareness and pharmacotherapy of hypertension in a rural community. <i>Medical Principles and Practice</i> , 2009 , 18, 261-5	2.1	5
41	Atherothrombosis and oxidative stress: the connection and correlation in diabetes. <i>Redox Report</i> , 2009 , 14, 55-60	5.9	16
40	Mathematical modelling of neuronal dendritic branching patterns in two dimensions: application to retinal ganglion cells in the cat and rat. <i>Biological Cybernetics</i> , 2009 , 100, 97-108	2.8	8
39	Quantitative analysis of dendritic morphology of the fundus retinal ganglion cells in the rat: a cell classification study. <i>Journal of Theoretical Biology</i> , 2009 , 259, 142-50	2.3	24
38	Chronic high dose captopril decreases total heart rate variability and increases heart rate in C57BL/6J mice. <i>International Journal of Cardiology</i> , 2009 , 136, 211-3	3.2	6
37	Identifying diabetic patients with cardiac autonomic neuropathy by heart rate complexity analysis. <i>BioMedical Engineering OnLine</i> , 2009 , 8, 3	4.1	67
36	The Vitamin E regeneration system (VERS) and an algorithm to justify antioxidant supplementation in diabetes—a hypothesis. <i>Medical Hypotheses</i> , 2008 , 70, 1002-8	3.8	21
35	Oxidative stress and cardio myocyte apoptosis: Possibility of development of myocardial disarray in diabetes. <i>Journal of Biotechnology</i> , 2008 , 136, S109	3.7	3
34	AWSum - applying data mining in a health care scenario 2008 ,		1
33	BOX-COUNTING ANALYSIS OF MICROGLIA FORM IN SCHIZOPHRENIA, ALZHEIMER'S DISEASE AND AFFECTIVE DISORDER. <i>Fractals</i> , 2008 , 16, 103-107	3.2	11
32	Identification of hypertension and efficacy of treatment in a rural Australian population. <i>Clinical and Experimental Hypertension</i> , 2008 , 30, 359-66	2.2	3
31	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</i> , 2008 , 2008, 4696-9	0.9	3
30	Oxidative damage indices for the assessment of subclinical diabetic macrovascular complications. <i>British Journal of Biomedical Science</i> , 2008 , 65, 136-41	1.6	11
29	Automated detection of proliferative retinopathy in clinical practice. <i>Clinical Ophthalmology</i> , 2008 , 2, 109-22	2.5	21
28	Automated classification reveals morphological factors associated with dementia. <i>Applied Soft Computing Journal</i> , 2008 , 8, 182-190	7.5	11
27	Computational Methods for the Early Detection of Diabetes 2008 , 274-280		

26	Erythrocyte oxidative damage in chronic fatigue syndrome. <i>Archives of Medical Research</i> , 2007 , 38, 94-8	6.6	50
25	Short-term ECG recording for the identification of cardiac autonomic neuropathy in people with diabetes mellitus. <i>AIP Conference Proceedings</i> , 2007 ,	0	3
24	D-dimer identifies stages in the progression of diabetes mellitus from family history of diabetes to cardiovascular complications. <i>Pathology</i> , 2007 , 39, 252-7	1.6	29
23	Erythrocyte oxidative stress in clinical management of diabetes and its cardiovascular complications. <i>British Journal of Biomedical Science</i> , 2007 , 64, 35-43	1.6	40
22	Automated segmentation of retinal blood vessels and identification of proliferative diabetic retinopathy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007 , 24, 1448-56	1.8	39
21	The ankle-brachial index in clinical decision making. <i>Foot</i> , 2006 , 16, 153-157	1.3	9
20	Understanding Fractal Analysis? The Case of Fractal Linguistics. <i>Complexus</i> , 2006 , 3, 66-73		23
19	Changes in the erythrocyte glutathione concentration in the course of diabetes mellitus. <i>Redox Report</i> , 2006 , 11, 99-104	5.9	24
18	Retinal vessel segmentation using the 2-D Gabor wavelet and supervised classification. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 1214-22	11.7	942
17	Opportunistic screening for cardiovascular problems in rural and remote health settings. <i>Journal of Cardiovascular Nursing</i> , 2006 , 21, 217-22	2.1	1
16	An automated microaneurysm detector as a tool for identification of diabetic retinopathy in rural optometric practice. <i>Australasian journal of optometry, The</i> , 2006 , 89, 299-305	2.7	32
15	An innovative Multi-disciplinary Diabetes Complications Screening Program in a Rural Community: A Description and Preliminary Results of the Screening. <i>Australian Journal of Primary Health</i> , 2006 , 12, 14	1.4	32
14	Heart rate variability analysis: a useful assessment tool for diabetes associated cardiac dysfunction in rural and remote areas. <i>Australian Journal of Rural Health</i> , 2005 , 13, 77-82	1.3	28
13	Automated Classification of Dementia Subtypes from Post-mortem Cortex Images. <i>Lecture Notes in Computer Science</i> , 2005 , 1285-1288	0.9	2
12	Automated morphometric analysis of the cat retinal alpha/Y, beta/X and delta ganglion cells using wavelet statistical moment and clustering algorithms. <i>Journal of Integrative Neuroscience</i> , 2004 , 3, 415-325	1.5	7
11	DENDRITIC BRANCHING OF PYRAMIDAL CELLS IN THE VISUAL CORTEX OF THE NOCTURNAL OWL MONKEY: A FRACTAL ANALYSIS. <i>Fractals</i> , 2003 , 11, 391-396	3.2	14
10	PYRAMIDAL NEURONES IN MACAQUE VISUAL CORTEX: INTERAREAL PHENOTYPIC VARIATION OF DENDRITIC BRANCHING PATTERNS. <i>Fractals</i> , 2001 , 09, 287-295	3.2	17
9	DENDRITIC BRANCHING PATTERNS OF PYRAMIDAL CELLS IN THE VISUAL CORTEX OF THE NEW WORLD MARMOSET MONKEY, WITH COMPARATIVE NOTES ON THE OLD WORLD MACAQUE MONKEY. <i>Fractals</i> , 2001 , 09, 297-303	3.2	16

8	Use of fractal theory in neuroscience: methods, advantages, and potential problems. <i>Methods</i> , 2001 , 24, 309-21	4.6	124
7	Wavelet packet fractal analysis of neuronal morphology. <i>Methods</i> , 2001 , 24, 347-58	4.6	17
6	A method to determine the fractal dimension of the cross-sectional jaggedness of the infarct scar edge. <i>Redox Report</i> , 2000 , 5, 119-21	5.9	2
5	Neurons and fractals: how reliable and useful are calculations of fractal dimensions?. <i>Journal of Neuroscience Methods</i> , 1998 , 81, 9-18	3	125
4	Dye-coupling among neurons of the rat locus coeruleus during postnatal development. <i>Neuroscience</i> , 1993 , 56, 129-37	3.9	54
3	Destruction by anti-NGF of autonomic, sudomotor neurones and subsequent hyperinnervation of the foot pad by sensory fibres. <i>Journal of Neuroscience Research</i> , 1988 , 19, 474-82	4.4	24
2	Missing Data Imputation for Individualised CVD Diagnostic and Treatment		4
1	Detection of Congestive Heart Failure using Renyi Entropy		2