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Support vector machine-based arrhythmia classification using reduced features of heart rate variability signal

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#	Paper	IF	Citations
260	PVC discrimination using the QRS power spectrum and self-organizing maps. 2009 , 94, 223-31		29
259	Machine learning in electrocardiogram diagnosis. 2009,		10
258	. 2009,		7
257	A qualitative comparison of Artificial Neural Networks and Support Vector Machines in ECG arrhythmias classification. 2010 , 37, 3088-3093		110
256	The differential method of phase space matrix for AF/VF discrimination application. 2010 , 32, 444-53		10
255	Classification of functional voice disorders based on phonovibrograms. <i>Artificial Intelligence in Medicine</i> , 2010 , 49, 51-9	7.4	32
254	Towards automatic detection of atrial fibrillation: A hybrid computational approach. 2010 , 40, 919-30		42
253	INTELLIGENT DIAGNOSIS OF CARDIOVASCULAR DISEASES UTILIZING ECG SIGNALS. 2010 , 07, 81-97		6
252	Ensemble of support vector machines for heartbeat classification. 2010 ,		2
251	DATABASE CLASSIFICATION BY INTEGRATING A CASE-BASED REASONING AND SUPPORT VECTOR MACHINE FOR INDUCTION. 2010 , 19, 31-44		1
250	Hidden Markov Models for modeling blood pressure data to predict acute hypotension. 2010 ,		5
249	Non-invasive classification of severe sepsis and systemic inflammatory response syndrome using a nonlinear support vector machine: a preliminary study. 2010 , 31, 775-93		33
248	Classification of biological signals based on nonlinear features. 2010 ,		2
247	Neuro-fuzzy-based Arrhythmia Classification Using Heart Rate Variability Features. 2010,		2
246	Bayesian quantitative electrophysiology and its multiple applications in bioengineering. 2010 , 3, 155-6	8	4
245	Arrhythmias classification using the fractal behavior of the power spectrum density of the QRS complex and ANN. 2010 ,		
244	Cardiac arrhythmia detection using dynamic time warping of ECG beats in e-healthcare systems. 2011 ,		19

243	Heart arrhythmia classification using the PPM algorithm. 2011 ,	1
242	Latent topic multi-instance learning approach for automated ECG classification. 2011,	1
241	Heart rate variability dynamics for the prognosis of cardiovascular risk. 2011, 6, e17060	32
240	Robust genetic programming-based detection of atrial fibrillation using RR intervals. 2011 , 29, no-no	Ο
239	Electrocardiogram analysis using a combination of statistical, geometric, and nonlinear heart rate variability features. <i>Artificial Intelligence in Medicine</i> , 2011 , 51, 175-86	71
238	Predictive data mining in clinical medicine: a focus on selected methods and applications. 2011 , 1, 416-430	53
237	Patient Outcome Prediction with Heart Rate Variability and Vital Signs. 2011, 64, 265-278	24
236	Analysis and Design of On-sensor ECG Processors for Realtime Detection of Cardiac Anomalies Including VF, VT, and PVC. 2011 , 65, 275-285	4
235	High efficient system for automatic classification of the electrocardiogram beats. 2011 , 39, 996-1011	18
234	Using SVM based method for equipment fault detection in a thermal power plant. 2011 , 62, 42-50	83
233	Maximum Margin Clustering Method Based on Immune Evolution for Electrocardiogram Arrhythmias Diagnosis. 2011 ,	
232	Prediction of paroxysmal atrial fibrillation using recurrence plot-based features of the RR-interval signal. 2011 , 32, 1147-62	30
231	Large Margin Filtering. 2012 , 60, 648-659	9
230	Evolutional Diagnostic Rules Mining for Heart Disease Classification Using ECG Signal Data. 2012 , 673-680	
229	Accurate prediction of coronary artery disease using reliable diagnosis system. 2012 , 36, 3353-73	27
228	Bispectral analysis and genetic algorithm for congestive heart failure recognition based on heart rate variability. 2012 , 42, 816-25	60
227	Advances in Control and Communication. 2012,	6
226	Evaluating and comparing performance of feature combinations of heart rate variability measures for cardiac rhythm classification. 2012 , 7, 245-255	32

225	Selection of effective features for ECG beat recognition based on nonlinear correlations. <i>Artificial Intelligence in Medicine</i> , 2012 , 54, 43-52	7.4	22
224	A characterization of electrocardiogram signals through optimal allocation of information granularity. <i>Artificial Intelligence in Medicine</i> , 2012 , 54, 125-34	7.4	6
223	Prediction of paroxysmal atrial fibrillation based on non-linear analysis and spectrum and bispectrum features of the heart rate variability signal. 2012 , 105, 40-9		72
222	ECG arrhythmia recognition via a neuro-SVM K NN hybrid classifier with virtual QRS image-based geometrical features. 2012 , 39, 2047-2058		107
221	Comparison of fetal heart rate patterns using nonlinear dynamics in breech versus cephalic presentation at term. 2013 , 89, 101-6		11
220	A classification scheme for ventricular arrhythmias using wavelets analysis. 2013 , 51, 153-64		27
219	ECG arrhythmia classification using a probabilistic neural network with a feature reduction method. 2013 , 116, 38-45		115
218	Effect of Visual Cues on Line Drawing Performance. 2013,		1
217	Adaptive process control based on a self-learning mechanism in autonomous manufacturing systems. 2013 , 66, 1725-1743		12
216	Automated classification of coronary atherosclerosis using single lead ECG. 2013,		9
215	Mathematical biomarkers for the autonomic regulation of cardiovascular system. 2013 , 4, 279		29
214	Cardiac arrhythmia detection using combination of heart rate variability analyses and PUCK analysis. 2013 , 2013, 1696-9		4
213	Extension and detailed overview of the HRVFrame framework for heart rate variability analysis. 2013 ,		8
212	Classification of hydration status using electrocardiogram and machine learning. 2013,		1
211	Machine learning techniques for arterial pressure waveform analysis. 2013 , 3, 82-101		11
210	A novel automatic detection system for ECG arrhythmias using maximum margin clustering with immune evolutionary algorithm. 2013 , 2013, 453402		8
209	Implementation of a portable device for real-time ECG signal analysis. 2014, 13, 160		34
208	Cardiac arrhythmia detection using linear and non-linear features of HRV signal. 2014,		2

207	Hybrid classification engine for cardiac arrhythmia cloud service in elderly healthcare management. 2014 , 25, 745-753	15
206	Engineering Principles in Biomedical Informatics. 2014 , 313-345	
205	Brain-robot interface: Distinguishing left and right hand EEG signals through SVM. 2014 ,	5
204	Multiclass maximum margin clustering via immune evolutionary algorithm for automatic diagnosis of electrocardiogram arrhythmias. 2014 , 227, 428-436	15
203	Evaluation of bagging ensemble method with time-domain feature extraction for diagnosing of arrhythmia beats. 2014 , 24, 317-326	36
202	Detection of electrocardiogram signals using an efficient method. 2014 , 22, 108-117	23
201	Multivariate autoregressive modeling for cardiac arrhythmia classification using multilayer perceptron neural networks. 2014 ,	2
200	Using systems biology approaches to understand cardiac inflammation and extracellular matrix remodeling in the setting of myocardial infarction. 2014 , 6, 77-91	12
199	Fuzzy logic-based diagnostic algorithm for implantable cardioverter defibrillators. <i>Artificial Intelligence in Medicine</i> , 2014 , 60, 113-21	8
198	Condition monitoring and fault diagnostics for hydropower plants. 2014 , 65, 924-936	34
197	Analysis of patient outcome using ECG and extreme learning machine ensemble. 2015,	2
196	Artificial Intelligence Methods Applied to Parameter Detection of Atrial Fibrillation. 2015 , 637, 012023	1
195	Heart arrhythmia classification using the prediction by partial matching algorithm. 2015, 52, 285	2
194	Temporal correction of detected R-peaks in ECG signals: A crucial step to improve QRS detection algorithms. 2015 , 2015, 522-5	4
193	A restricted Boltzmann machine based two-lead electrocardiography classification. 2015,	22
192	Utilization and Clinical Feasibility of a Handheld Remote Electrocardiography Recording Device in Cardiac Arrhythmias and Atrial Fibrillation: A Pilot Study. 2015 , 9, 206-210	5
191	. 2015,	10
190	Effect of acupuncture at HT7 on heart rate variability: an exploratory study. 2015 , 33, 30-5	18

189	Application of Entropy Measures on Intrinsic Mode Functions for the Automated Identification of Focal Electroencephalogram Signals. 2015 , 17, 669-691	218
188	Automated diagnosis of coronary artery diseased patients by heart rate variability analysis using linear and non-linear methods. 2015 , 39, 331-41	13
187	A novel technique for cardiac arrhythmia classification using spectral correlation and support vector machines. 2015 , 42, 8361-8368	70
186	. 2015,	4
185	Generalized discriminant analysis for congestive heart failure risk assessment based on long-term heart rate variability. 2015 , 122, 191-8	29
184	Heart rate dynamics distinguish among atrial fibrillation, normal sinus rhythm and sinus rhythm with frequent ectopy. 2015 , 36, 1873-88	64
183	Fast multi-scale feature fusion for ECG heartbeat classification. 2015 , 2015,	17
182	Effect of Multiscale PCA De-noising in ECG Beat Classification for Diagnosis of Cardiovascular Diseases. 2015 , 34, 513-533	71
181	ECG Classification Using Wavelet Packet Entropy and Random Forests. 2016 , 18, 285	206
180	Arrhythmia Classification via k-Means Based Polyhedral Conic Functions Algorithm. 2016,	4
179	An optimal structure of multilayer perceptron using particle swarm optimization for the prediction of cardiac arrhythmias. 2016 ,	3
178	Hybrid EEG-EOG system for intelligent prosthesis control based on common spatial pattern algorithm. 2016 ,	5
177	Automatic signal abnormality detection using time-frequency features and machine learning: A newborn EEG seizure case study. 2016 , 106, 38-50	77
176	Medical Decision Support System for Diagnosis of Heart Arrhythmia using DWT and Random Forests Classifier. 2016 , 40, 108	97
175	Application of the relative wavelet energy to heart rate independent detection of atrial fibrillation. 2016 , 131, 157-68	54
174	A modular integrating algorithm for multiple arrhythmia detection. 2016 ,	
173	Machine-Learning Algorithms to Automate Morphological and Functional Assessments in 2D Echocardiography. 2016 , 68, 2287-2295	187
172	. 2016,	7

(2017-2016)

171	Beatquency domain and machine learning improve prediction of cardiovascular death after acute coronary syndrome. 2016 , 6, 34540	13
170	Proposition of novel classification approach and features for improved real-time arrhythmia monitoring. 2016 , 75, 190-202	12
169	Symbolic features and classification via support vector machine for predicting death in patients with Chagas disease. 2016 , 70, 220-227	8
168	ECG-based heartbeat classification for arrhythmia detection: A survey. 2016 , 127, 144-64	390
167	Supraventricular Tachycardia Classification in the 12-Lead ECG Using Atrial Waves Detection and a Clinically Based Tree Scheme. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 1513-1520 7.2	16
166	State-Based General Gamma CUSUM for Modeling Heart Rate Variability Using Electrocardiography Signals. 2017 , 14, 1160-1171	3
165	Evaluation of effect of unsupervised dimensionality reduction techniques on automated arrhythmia classification. 2017 , 34, 1-8	22
164	Ventricular Fibrillation and Tachycardia detection from surface ECG using time-frequency representation images as input dataset for machine learning. 2017 , 141, 119-127	32
163	Facial Expression Recognition Utilizing Local Direction-Based Robust Features and Deep Belief Network. 2017 , 5, 4525-4536	92
162	An Arrhythmia Classification Method in Utilizing the Weighted KNN and the Fitness Rule. 2017 , 38, 138-148	17
161	Inter-Patient ECG Heartbeat Classification with Temporal VCG Optimized by PSO. 2017, 7, 10543	49
160	Exploration of a Hybrid Design Based on EEG and Eye Movement. <i>Lecture Notes in Computer Science</i> , 2017 , 206-216	1
159	A method for intelligent support to medical diagnosis in emergency cardiac care. 2017,	
158	A clinical decision-making mechanism for context-aware and patient-specific remote monitoring systems using the correlations of multiple vital signs. 2017 , 139, 1-16	22
157	Cyclic spectral analysis of electrocardiogram signals based on GARCH model. 2017, 31, 79-88	9
156	Classification of cardiac arrhythmias based on alphabet entropy of heart rate variability time series. 2017 , 31, 217-230	15
155	Arrhythmia classification using Mahalanobis distance based improved Fuzzy C-Means clustering for mobile health monitoring systems. 2017 , 220, 221-235	43
154	Knowledge discovery in cardiology: A systematic literature review. 2017 , 97, 12-32	46

153	Simple Symbolic Dynamic of Heart Rate Variability Identify Patient with Congestive Heart Failure. 2017 , 124, 197-204		1
152	Electrocardiograph (ECG) Recognition Based on Graphical Fusion with Geometric Algebra. 2017,		2
151	ELECTRO-ACUPUNCTURE AT JIANSHI (PC5) AND NEIGUAN (PC6) ALTERS HEART RATE VARIABILITY (HRV) IN FRIGHTENED VOLUNTEERS. 2017 , 15, 98		
150	Paroxysmal atrial fibrillation recognition based on multi-scale Rfiyi entropy of ECG. 2017 , 25, 189-196		3
149	A Multinomial Logistic Regression Approach for Arrhythmia Detection. 2017, 8, 17-33		5
148	Geometric patterns of time-delay plots from different cardiac rhythms and arrhythmias using short-term EKG signals. 2018 , 38, 856-863		5
147	Computational techniques for ECG analysis and interpretation in light of their contribution to medical advances. 2018 , 15,		92
146	Atrial fibrillation classification using step-by-step machine learning. 2018 , 4, 045005		10
145	Wide complex tachycardia discrimination using dynamic time warping of ECG beats. 2018, 164, 238-249		4
144	Predicting deterioration of ventricular function in patients with repaired tetralogy of Fallot using machine learning. 2018 , 19, 730-738		29
143	Medical informatics research trend analysis: A text mining approach. 2018, 24, 432-452		34
142	Computer Aided Diagnosis of Ventricular Arrhythmias from Electrocardiogram Lead II Signals. 2018 , 9, 01-18		
141	Classification of ECG Arrhythmia using Recurrent Neural Networks. 2018, 132, 1290-1297		75
140	A pyramid-like model for heartbeat classification from ECG recordings. 2018 , 13, e0206593		10
139	Methodology for Attention Detection based on Heart Rate Variability. 2018,		О
138	A convolutional neural network for ECG annotation as the basis for classification of cardiac rhythms. 2018 , 39, 104005		33
137	Model Based on Support Vector Machine for the Estimation of the Heart Rate Variability. <i>Lecture Notes in Computer Science</i> , 2018 , 186-194	9	1
136	Computerised Decision Support System for Remote Health Monitoring: A Systematic Review. 2018 , 39, 359-367		6

135	Arrhythmia recognition and classification using kernel ICA and higher order spectra. 2018, 7, 256	6
134	Detection of coronary artery disease by reduced features and extreme learning machine. 2018 , 91, 166-175	8
133	. 2018 , 6, 46419-46494	31
132	Dynamic signal quality index for electrocardiograms. 2018 , 39, 105008	7
131	AF Detection by Exploiting the Spectral and Temporal Characteristics of ECG Signals with the LSTM Model. 2018 ,	6
130	A topological approach to delineation and arrhythmic beats detection in unprocessed long-term ECG signals. 2018 , 164, 159-168	4
129	A systematic map of medical data preprocessing in knowledge discovery. 2018 , 162, 69-85	19
128	Efficient classification of ventricular arrhythmias using feature selection and C4.5 classifier. 2018 , 44, 200-208	26
127	Early prediction of paroxysmal atrial fibrillation based on short-term heart rate variability. 2018 , 509, 56-65	22
126	An Automated Remote Cloud-Based Heart Rate Variability Monitoring System. 2018 , 6, 77055-77064	66
125	Automated Classification of Hypertension and Coronary Artery Disease Patients by PNN, KNN, and SVM Classifiers Using HRV Analysis. 2019 , 99-125	11
124	Detection of congestive heart failure from short-term heart rate variability segments using hybrid feature selection approach. 2019 , 53, 101583	9
123	Introduction and Background. 2019 , 1-26	2
122	VENTRICULAR TACHYCARDIA AND FIBRILLATION DETECTION USING DWT AND DECISION TREE CLASSIFIER. 2019 , 19, 1950008	4
121	Arrhythmia Classification based on CNN_BILSTM. 2019 ,	
120	ECG Heartbeat Classification: A Comparative Performance Analysis between One and Two Dimensional Convolutional Neural Network. 2019 ,	O
119	. 2019,	3
118	CORONARY HEART DISEASE DETECTION USING NONLINEAR FEATURES AND ONLINE SEQUENTIAL EXTREME LEARNING MACHINE. 2019 , 31, 1950046	1

117	Automated arrhythmia classification for monitoring cardiac patients using machine learning techniques. 2019 , 153-177	1
116	Automatic Classification of ECG Signals in WBAN Based on Convolutional Neural Network and Long-Short Term Memory Network. 2019 ,	1
115	Assessment of the Post-Traumatic Damage of Myocardium in Patients with Combat Trauma Using a Data Mining Analysis of an Electrocardiogram. 2019 ,	1
114	Premature ventricular contraction analysis for real-time patient monitoring. 2019 , 47, 358-365	7
113	The Issue of Automatic Classification of Heartbeats. 2019 , 169-193	
112	VFPred: A fusion of signal processing and machine learning techniques in detecting ventricular fibrillation from ECG signals. 2019 , 49, 349-359	11
111	Improvization of Arrhythmia Detection Using Machine Learning and Preprocessing Techniques. Advances in Intelligent Systems and Computing, 2019 , 537-550	
110	A Systematic Mapping Study of Data Preparation in Heart Disease Knowledge Discovery. 2018 , 43, 17	5
109	Comparison of radiomics machine-learning classifiers and feature selection for differentiation of sacral chordoma and sacral giant cell tumour based on 3D computed tomography features. 2019 , 29, 1841-1847	51
108	Systematic mapping study of data mining-based empirical studies in cardiology. 2019 , 25, 741-770	8
107	A novel online method for identifying motion artifact and photoplethysmography signal reconstruction using artificial neural networks and adaptive neuro-fuzzy inference system. 2020 , 32, 3549-3566	10
106	Arrhythmia detection by extracting hybrid features based on refined Fuzzy entropy (FuzEn) approach and employing machine learning techniques. 2020 , 30, 656-686	9
105	Machine learning approach to recognize ventricular arrhythmias using VMD based features. 2020 , 31, 49-71	3
104	Detection of premature ventricular contraction (PVC) using linear and nonlinear techniques: an experimental study. 2020 , 23, 759-774	4
103	Arrhythmia identification and classification using wavelet centered methodology in ECG signals. 2020 , 32, e5553	7
102	Machine Learning Approach to Detect Cardiac Arrhythmias in ECG Signals: A Survey. 2020 , 41, 185-194	23
101	Deep Learning Algorithm Classifies Heartbeat Events Based on Electrocardiogram Signals. 2020 , 11, 569050	9
100	A greedy classifier optimization strategy to assess ion channel blocking activity and pro-arrhythmia in hiPSC-cardiomyocytes. 2020 , 16, e1008203	3

(2020-2020)

99	A Simple Extreme Learning Machine Model for Detecting Heart Arrhythmia in The Electrocardiography Signal. 2020 ,		О	
98	Wearable Physiological Monitoring System Based on Electrocardiography and Electromyography for Upper Limb Rehabilitation Training. <i>Sensors</i> , 2020 , 20,	3.8	8	
97	Extended Segmented Beat Modulation Method for Cardiac Beat Classification and Electrocardiogram Denoising. <i>Electronics (Switzerland)</i> , 2020 , 9, 1178	2.6	4	
96	Impact of Data Transformation: An ECG Heartbeat Classification Approach. 2020 , 2, 610956		2	
95	Coronary Artery Disease Detection by Machine Learning with Coronary Bifurcation Features. 2020 , 10, 7656		5	
94	Prediction of mortality from 12-lead electrocardiogram voltage data using a deep neural network. 2020 , 26, 886-891		61	
93	ECG-based multi-class arrhythmia detection using spatio-temporal attention-based convolutional recurrent neural network. <i>Artificial Intelligence in Medicine</i> , 2020 , 106, 101856	7.4	38	
92	Epithelial salivary gland tumors: Utility of radiomics analysis based on diffusion-weighted imaging for differentiation of benign from malignant tumors. 2020 , 28, 799-808		3	
91	Classification of ECG Heartbeat Arrhythmia: A Review. 2020 , 171, 679-688		13	
90	Atrial Fibrillation Risk Prediction from Electrocardiogram and Related Health Data with Deep Neural Network. 2020 ,		Ο	
89	ST-Net: Synthetic ECG tracings for diagnosing various cardiovascular diseases. 2020 , 61, 101997		4	
88	Automatic Classification of Cardiac Arrhythmias Based on Hybrid Features and Decision Tree Algorithm. 2020 , 17, 551-561		12	
87	Biventricular imaging markers to predict outcomes in non-compaction cardiomyopathy: a machine learning study. 2020 , 7, 2431-2439		5	
86	Data preprocessing for heart disease classification: A systematic literature review. 2020 , 195, 105635		14	
85	Cardiac arrhythmia classification using tunable Q-wavelet transform based features and support vector machine classifier. 2020 , 59, 101875		27	
84	State-of-the-Art Machine Learning Techniques Aiming to Improve Patient Outcomes Pertaining to the Cardiovascular System. 2020 , 9, e013924		43	
83	Preoperative MRI-Based Radiomic Machine-Learning Nomogram May Accurately Distinguish Between Benign and Malignant Soft-Tissue Lesions: A Two-Center Study. 2020 , 52, 873-882		25	
82	Classification models for heart disease prediction using feature selection and PCA. 2020 , 19, 100330		75	

81	Patient Specific Machine Learning Models for ECG Signal Classification. 2020 , 167, 2181-2190	20
80	Ensemble of kernel extreme learning machine based random forest classifiers for automatic heartbeat classification. 2021 , 63, 102138	17
79	Automated estimation of echocardiogram image quality in hospitalized patients. 2021, 37, 229-239	3
78	Radiomics-based machine-learning method for prediction of distant metastasis from soft-tissue sarcomas. 2021 , 76, 158.e19-158.e25	6
77	Prediction of cardiac arrhythmia using deterministic probabilistic finite-state automata. 2021 , 63, 102200	2
76	Screening of cardiac disease based on integrated modeling of heart rate variability. 2021 , 63, 102147	2
75	An Attention Based Neural Architecture for Arrhythmia Detection and Classification from ECG Signals. 2021 , 69, 2425-2443	1
74	State of the Art in Artificial Intelligence and Machine Learning Techniques for Improving Patient Outcomes Pertaining to the Cardiovascular and Respiratory Systems. 2021 , 335-352	2
73	AI-based diagnosis techniques for cardiac disease analysis and predictions. 2021 , 133-155	
72	Multi-kernel SVM Approach for Arrhythmias Classification. 2021 , 733-739	1
72 71	Multi-kernel SVM Approach for Arrhythmias Classification. 2021, 733-739 Application of computational intelligence models in IoMT big data for heart disease diagnosis in personalized health care. 2021, 177-206	1
	Application of computational intelligence models in IoMT big data for heart disease diagnosis in	1
71	Application of computational intelligence models in IoMT big data for heart disease diagnosis in personalized health care. 2021 , 177-206 Can the application of certain music information retrieval methods contribute to the machine	
7 ¹	Application of computational intelligence models in IoMT big data for heart disease diagnosis in personalized health care. 2021 , 177-206 Can the application of certain music information retrieval methods contribute to the machine learning classification of electrocardiographic signals?. 2021 , 7, e06257 Application of a machine learning approach to characterization of liver function using Tc-GSA	1
71 70 69	Application of computational intelligence models in IoMT big data for heart disease diagnosis in personalized health care. 2021, 177-206 Can the application of certain music information retrieval methods contribute to the machine learning classification of electrocardiographic signals?. 2021, 7, e06257 Application of a machine learning approach to characterization of liver function using Tc-GSA SPECT/CT. 2021, 46, 3184-3192 SUPRAVENTRICULAR TACHYCARDIA CLASSIFICATION USING ATTENTION-BASED RESIDUAL	1
71 70 69 68	Application of computational intelligence models in IoMT big data for heart disease diagnosis in personalized health care. 2021, 177-206 Can the application of certain music information retrieval methods contribute to the machine learning classification of electrocardiographic signals?. 2021, 7, e06257 Application of a machine learning approach to characterization of liver function using Tc-GSA SPECT/CT. 2021, 46, 3184-3192 SUPRAVENTRICULAR TACHYCARDIA CLASSIFICATION USING ATTENTION-BASED RESIDUAL NETWORKS. 2021, 21, 2140004	1 2
71 70 69 68	Application of computational intelligence models in IoMT big data for heart disease diagnosis in personalized health care. 2021, 177-206 Can the application of certain music information retrieval methods contribute to the machine learning classification of electrocardiographic signals?. 2021, 7, e06257 Application of a machine learning approach to characterization of liver function using Tc-GSA SPECT/CT. 2021, 46, 3184-3192 SUPRAVENTRICULAR TACHYCARDIA CLASSIFICATION USING ATTENTION-BASED RESIDUAL NETWORKS. 2021, 21, 2140004 Evolution, Ecology, and Zoonotic Transmission of Betacoronaviruses: A Review. 2021, 8, 644414 How machine learning is impacting research in atrial fibrillation: implications for risk prediction and	1 2 6

63	Prediction of Heart Disease Using a Combination of Machine Learning and Deep Learning. 2021 , 2021, 8387680		57
62	Radiomics Nomogram Based on Contrast-enhanced CT to Predict the Malignant Potential of Gastrointestinal Stromal Tumor: A Two-center Study. 2021 ,		2
61	Hybrid-Pattern Recognition Modeling with Arrhythmia Simulation for Ubiquitous Health Management System (Preprint).		
60	A Review on Remote Health Monitoring Sensors and Their Filtering Techniques. <i>Global Transitions Proceedings</i> , 2021 , 2, 392-392	0.3	1
59	Automated Detection of Normal and Cardiac Heart Disease Using Chaos Attributes and Online Sequential Extreme Learning Machine. <i>Health Information Science</i> , 2021 , 213-234	0.1	
58	Decision Tree Ensembles in Biomedical Time-Series Classification. <i>Lecture Notes in Computer Science</i> , 2012 , 408-417	0.9	8
57	Biomedical Signal Analysis and Its Usage in Healthcare. 2019 , 423-452		4
56	Emotion recognition using speech and neural structured learning to facilitate edge intelligence. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 94, 103775	7.2	14
55	Computerized Systems Supporting Clinical Decision in Medicine. <i>Studies in Logic, Grammar and Rhetoric</i> , 2018 , 56, 107-120	0.1	1
54	Screening strategies for atrial fibrillation: a systematic review and cost-effectiveness analysis. <i>Health Technology Assessment</i> , 2017 , 21, 1-236	4.4	72
53	Critical Evaluation of Linear Dimensionality Reduction Techniques for Cardiac Arrhythmia Classification. <i>Circuits and Systems</i> , 2016 , 07, 2603-2612	0.6	1
52	Role of Knowledge Engineering in the Development of a Hybrid Knowledge Based Medical Information System for Atrial Fibrillation. <i>American Journal of Industrial and Business Management</i> , 2013 , 03, 36-41	0.3	3
51	Rare Diseases Internet Information Retrieval and Knowledge Discovery. 2016 , 765-778		
50	A Proposal for Cardiac Arrhythmia Classification using Complexity Measures. <i>Advances in Electrical and Computer Engineering</i> , 2017 , 17, 29-34	1.3	1
49	Artificial Intelligence versus DoctorsSIntelligence: A Glance on Machine Learning Benefaction in Electrocardiography. <i>Discoveries</i> , 2017 , 5, e76	3.7	2
48	Literature Review. Analog Circuits and Signal Processing Series, 2018, 11-22	0.2	
47	The Research on Feature Extraction Method of ECG Signal Based on KPCA Dimension Reduction. 2020 ,		0
46	ECG Signal Analysis, Diagnosis and Transmission. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 633-648	0.4	

45	Arrhythmia detection and classification using ECG and PPG techniques: a review. <i>Physical and Engineering Sciences in Medicine</i> , 2021 , 44, 1027	7	3
44	Detection of Ventricular Arrhythmias using HRV Analysis and Quadratic Features. <i>Recent Advances in Electrical and Electronic Engineering</i> , 2020 , 13, 847-855	0.3	
43	Arrhythmia Detection based on Morphological and Time-frequency Features of T-wave in Electrocardiogram. <i>Journal of Medical Signals and Sensors</i> , 2011 , 1, 99-106	1	3
42	Structures of the recurrence plot of heart rate variability signal as a tool for predicting the onset of paroxysmal atrial fibrillation. <i>Journal of Medical Signals and Sensors</i> , 2011 , 1, 113-21	1	4
41	Prediction of p38 map kinase inhibitory activity of 3, 4-dihydropyrido [3, 2-d] pyrimidone derivatives using an expert system based on principal component analysis and least square support vector machine. <i>Research in Pharmaceutical Sciences</i> , 2014 , 9, 471-88	2.6	3
40	An ECG classification based on modified local binary patterns: a novel approach. <i>Research on Biomedical Engineering</i> , 2021 , 37, 617-630	1.2	
39	An Automated System for ECG Arrhythmia Detection Using Machine Learning Techniques. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	6
38	Expert system based detection and classification of coronary artery disease using ranking methods and nonlinear attributes. <i>Multimedia Tools and Applications</i> , 1	2.5	O
37	Automated health detection of congestive heart failure subject using rank multiresolution wavelet packet attributes and 1-norm linear programming ELM. <i>Multimedia Tools and Applications</i> , 1	2.5	
36			
<i>3</i> 0	Development of Cloud Computing Algorithm for Arrhythmia Detection. 2020 ,		Ο
35	Development of Cloud Computing Algorithm for Arrhythmia Detection. 2020 , Hybrid-Pattern Recognition Modeling with Arrhythmia Signal Processing for Ubiquitous Health Management <i>Sensors</i> , 2022 , 22,	3.8	1
	Hybrid-Pattern Recognition Modeling with Arrhythmia Signal Processing for Ubiquitous Health	3.8	
35	Hybrid-Pattern Recognition Modeling with Arrhythmia Signal Processing for Ubiquitous Health Management Sensors, 2022, 22, Premature Ventricular Contraction (PVC) Detection System Based on Tunable Q-Factor Wavelet		1
35	Hybrid-Pattern Recognition Modeling with Arrhythmia Signal Processing for Ubiquitous Health Management Sensors, 2022, 22, Premature Ventricular Contraction (PVC) Detection System Based on Tunable Q-Factor Wavelet Transform Journal of Biomedical Physics and Engineering, 2022, 12, 61-74 Feature Extraction Methods for Predicting the Prevalence of Heart Disease. Lecture Notes in	1	1
35 34 33	Hybrid-Pattern Recognition Modeling with Arrhythmia Signal Processing for Ubiquitous Health Management Sensors, 2022, 22, Premature Ventricular Contraction (PVC) Detection System Based on Tunable Q-Factor Wavelet Transform Journal of Biomedical Physics and Engineering, 2022, 12, 61-74 Feature Extraction Methods for Predicting the Prevalence of Heart Disease. Lecture Notes in Networks and Systems, 2022, 481-494 Machine Learning-Based Feature Selection and Classification for the Experimental Diagnosis of	0.5	1 2
35 34 33 32	Hybrid-Pattern Recognition Modeling with Arrhythmia Signal Processing for Ubiquitous Health Management Sensors, 2022, 22, Premature Ventricular Contraction (PVC) Detection System Based on Tunable Q-Factor Wavelet Transform Journal of Biomedical Physics and Engineering, 2022, 12, 61-74 Feature Extraction Methods for Predicting the Prevalence of Heart Disease. Lecture Notes in Networks and Systems, 2022, 481-494 Machine Learning-Based Feature Selection and Classification for the Experimental Diagnosis of Trypanosoma cruzi. Electronics (Switzerland), 2022, 11, 785 An Embedded System Using Convolutional Neural Network Model for Online and Real-Time ECG	0.5	1 2
35 34 33 32 31	Hybrid-Pattern Recognition Modeling with Arrhythmia Signal Processing for Ubiquitous Health Management Sensors, 2022, 22, Premature Ventricular Contraction (PVC) Detection System Based on Tunable Q-Factor Wavelet Transform Journal of Biomedical Physics and Engineering, 2022, 12, 61-74 Feature Extraction Methods for Predicting the Prevalence of Heart Disease. Lecture Notes in Networks and Systems, 2022, 481-494 Machine Learning-Based Feature Selection and Classification for the Experimental Diagnosis of Trypanosoma cruzi. Electronics (Switzerland), 2022, 11, 785 An Embedded System Using Convolutional Neural Network Model for Online and Real-Time ECG Signal Classification and Prediction Diagnostics, 2022, 12, A novel automated junctional ectopic tachycardia detection tool for children with congenital heart	1 0.5 2.6 3.8	1 2

27	IoT Based Smart Monitoring of PatientsSwith Acute Heart Failure Sensors, 2022, 22,	3.8	3
26	Classification of Arrhythmia ECG Signal Using EMD and Rule-Based Classifiers. <i>Smart Innovation, Systems and Technologies</i> , 2022 , 393-399	0.5	
25	Semi-supervised learning for automatic atrial fibrillation detection in 24-hour Holter monitoring <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022 , PP,	7.2	О
24	Prediction of Risk in Cardiovascular Disease using Machine Learning Algorithms. 2022,		O
23	Deep Learning Radiomics Nomogram to Predict Lung Metastasis in Soft-Tissue Sarcoma: A Multi-Center Study. <i>Frontiers in Oncology</i> , 12,	5.3	О
22	DE-PNN: Differential Evolution-Based Feature Optimization with Probabilistic Neural Network for Imbalanced Arrhythmia Classification. <i>Sensors</i> , 2022 , 22, 4450	3.8	О
21	Detecting Ventricular Beats with Machine Learning Models. 2022,		
20	Automatic Atrial Fibrillation Arrhythmia Detection Using Univariate and Multivariate Data. <i>Algorithms</i> , 2022 , 15, 231	1.8	
19	Data pre-processing for cardiovascular disease classification: A systematic literature review. 2022 , 1-2 ⁻⁷	1	
18	ECG Heartbeat Classification Using CONVXGB Model. 2022 , 11, 2280		
	Lea Heartbeat etassification oshig convicas Modet. 2022, 11, 2200		O
17	Cardiac Arrhythmia classification based on 3D recurrence plot analysis and deep learning. 13,		O
17 16			0
ŕ	Cardiac Arrhythmia classification based on 3D recurrence plot analysis and deep learning. 13, A Robustness Evaluation of Machine Learning Algorithms for ECG Myocardial Infarction Detection.		1
16	Cardiac Arrhythmia classification based on 3D recurrence plot analysis and deep learning. 13, A Robustness Evaluation of Machine Learning Algorithms for ECG Myocardial Infarction Detection. 2022, 11, 4935 DSCSSA: A Classification Framework for Spatiotemporal Features Extraction of Arrhythmia Based		
16 15	Cardiac Arrhythmia classification based on 3D recurrence plot analysis and deep learning. 13, A Robustness Evaluation of Machine Learning Algorithms for ECG Myocardial Infarction Detection. 2022, 11, 4935 DSCSSA: A Classification Framework for Spatiotemporal Features Extraction of Arrhythmia Based on the Seq2Seq Model With Attention Mechanism. 2022, 71, 1-12 An Evolutionary-Neural Mechanism for Arrhythmia Classification With Optimum Features Using		1
16 15	Cardiac Arrhythmia classification based on 3D recurrence plot analysis and deep learning. 13, A Robustness Evaluation of Machine Learning Algorithms for ECG Myocardial Infarction Detection. 2022, 11, 4935 DSCSSA: A Classification Framework for Spatiotemporal Features Extraction of Arrhythmia Based on the Seq2Seq Model With Attention Mechanism. 2022, 71, 1-12 An Evolutionary-Neural Mechanism for Arrhythmia Classification With Optimum Features Using Single-Lead Electrocardiogram. 2022, 10, 99050-99065 Machine learning-based heart attack prediction: A 'symptomatic heart attack prediction method		1
16 15 14 13	Cardiac Arrhythmia classification based on 3D recurrence plot analysis and deep learning. 13, A Robustness Evaluation of Machine Learning Algorithms for ECG Myocardial Infarction Detection. 2022, 11, 4935 DSCSSA: A Classification Framework for Spatiotemporal Features Extraction of Arrhythmia Based on the Seq2Seq Model With Attention Mechanism. 2022, 71, 1-12 An Evolutionary-Neural Mechanism for Arrhythmia Classification With Optimum Features Using Single-Lead Electrocardiogram. 2022, 10, 99050-99065 Machine learning-based heart attack prediction: A 'symptomatic heart attack prediction method and exploratory analysis. 11, 1126 A Deep Neural Network Ensemble Classifier with Focal Loss for Automatic Arrhythmia		1 0

9	Detection of pulmonary hypertension associated with congenital heart disease based on time-frequency domain and deep learning features. 2023 , 81, 104316	O
8	A Cloud Application for ECG Arrhythmia Classification Using Deep Learning and N-Square Approaches. 2022 ,	O
7	Interpatient Heartbeat Classification Using Modified Residual Attention Network With Two-Phase Training and Assistant Decision. 2023 , 72, 1-15	1
6	Visualization and Prediction of Heart Disease using Big Data Analytics. 2022,	O
5	Classification of Diabetic Cardiomyopathy-Related Cells Using Machine Learning. 2022, 77, 846-857	0
4	Hybrid Deep Learning model for ECG-based Arrhythmia Detection. 2022 ,	O
3	Arrhythmia Recognition and Classification Using Kernel ICA and Higher Order Spectra. 2023, 282-298	O
2	Premature Ventricular Contraction Beat Classification via Hyperdimensional Computing. 2022,	O
1	SERG: A Sequence-to-Sequence Model for Chinese ECG Report Generation. 2022 ,	О