

Matlab Code For Ecg Classification Using Knn

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4th Kuala Lumpur International Conference on Biomedical Engineering 2008
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ECG Signals Classification Using Neural Network
ECGOnline, a Distributed ECG Analyzer with JAVA Implementation
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heart signals allow for a comprehensive analysis of the heart electrocardiography ecg or ekg uses electrodes to measure the electrical activity of the heart extracting ecg signals is a non invasive process that opens the door to new possibilities for the application of advanced signal processing and data analysis techniques in the diagnosis of heart diseases with the help of today s large database of ecg signals a computationally intelligent system can learn and take the place of a cardiologist detection of various abnormalities in the patient s heart to identify various heart diseases can be made through an adaptive neuro fuzzy inference system anfis preprocessed by subtractive clustering six types of heartbeats are classified normal sinus rhythm premature ventricular contraction pvc atrial premature contraction apc left bundle branch block lbbb right bundle branch block rbbb and paced beats the goal is to detect important characteristics of an ecg signal to determine if the patient s heartbeat is normal or irregular the results from three trials indicate an average accuracy of 98 10 average sensitivity of 94 99 and average specificity of 98 87 these results are comparable to two artificial neural network ann algorithms gradient descent and levenberg marquardt as well as the anfis preprocessed by grid partitioning

technological tools and computational techniques have enhanced the healthcare industry these advancements have led to significant progress in the diagnosis of heart disorders electrocardiogram signal classification and machine learning emerging research and opportunities is a critical scholarly resource that examines the importance of automatic

normalization and classification of electrocardiogram ecg signals of heart disorders featuring a wide range of topics such as common heart disorders particle swarm optimization and benchmarks functions this publication is geared toward medical professionals researchers professionals and students seeking current and relevant research on the categorization of ecg signals

the book shows how the various paradigms of computational intelligence employed either singly or in combination can produce an effective structure for obtaining often vital information from ecg signals the text is self contained addressing concepts methodology algorithms and case studies and applications providing the reader with the necessary background augmented with step by step explanation of the more advanced concepts it is structured in three parts part i covers the fundamental ideas of computational intelligence together with the relevant principles of data acquisition morphology and use in diagnosis part ii deals with techniques and models of computational intelligence that are suitable for signal processing and part iii details ecg system diagnostic interpretation and knowledge acquisition architectures illustrative material includes brief numerical experiments detailed schemes exercises and more advanced problems

this four volume set constitutes the refereed proceedings of the first international conference on on computational intelligence in engineering science iccies 2025 in ho chi minh city vietnam during july 23 25 2025 the 115 full papers presented in these proceedings were carefully reviewed and selected from 210 submissions the papers are organized in the following topical sections part i machine learning wireless networks 6g part ii computer vision natural language processing part iii intelligent systems internet of things part iv machine learning control systems

this book contains selected papers presented at third international conference on recent advancements in artificial intelligence icraai 2025 organized by the department of computer science engineering faculty of computer science engineering poornima university jaipur rajasthan india during 21 22 february 2025 the topics covered in the book are the cutting edge research involved in artificial intelligence machine learning deep learning nlp and data science

the book discusses machine learning based decision making models and presents intelligent hybrid and adaptive methods and tools for solving complex learning and decision making

problems under conditions of uncertainty featuring contributions from data scientists practitioners and educators the book covers a range of topics relating to intelligent systems for decision science and examines recent innovations trends and practical challenges in the field the book is a valuable resource for academics students researchers and professionals wanting to gain insights into decision making

in the realm of healthcare artificial intelligence ai machine learning ml and advanced sensor technologies which are spearheading the enhancement of patient management systems these technologies facilitate precise diagnostics tailor treatments to individual needs and enable continuous health monitoring to advance patient care especially in mental health and cognitive neuroscience innovations like ai enhanced clinical decision support systems aid healthcare professionals in refining decision making processes meanwhile machine learning models are increasingly used for their superior predictive accuracy in medical diagnostics and smart healthcare devices permit ongoing observation which is crucial for early disease intervention and chronic condition management however amidst these advancements issues such as data privacy ethical use of ai and the implications of automated decisions form the core of ongoing debates mental health disorders including anxiety alzheimer s depression epilepsy schizophrenia and bipolar disorder represent a significant portion of the global health burden affecting millions of individuals worldwide the complexity of these conditions often necessitates multi faceted approaches for accurate diagnosis and effective treatment traditional mental health assessment methods are frequently subjective and may not capture the full range of symptoms experienced by patients this gap creates a pressing need for innovative solutions that can provide more objective and nuanced insights into patient conditions and ai and ml offer transformative potential in this context by harnessing vast amounts of data generated from clinical assessments patient histories and neuroimaging studies ai can identify patterns that may elude human observers machine learning algorithms can be trained to recognize early signs of mental health disorders potentially allowing for interventions before symptoms escalate furthermore the integration of ai driven technologies into therapeutic practices can lead to personalized treatment plans tailored to the unique needs of each patient in parallel cognitive neuroscience explores the biological underpinnings of mental health focusing on the relationships between brain function behavior and mental processes advances in this field

provide critical insights that can enhance the development of ai models allowing for more accurate simulations of cognitive processes and better informed therapeutic strategies by integrating ai and ml and brain computer interfaces with cognitive neuroscience researchers and clinicians can develop tools that not only advance understanding but also translate findings into practical applications in mental health care to further this field s expansion into everyday clinical practice we welcome contributions that delve into ai and machine learning in enhancing clinical decision support systems cdss healthcare sensors in personalized mental health management and remote patient monitoring deep learning applications in neuroimaging and mental health diagnostics the use of smart wearables in managing mental health addressing ethical regulatory and practical challenges in ai implementation in mental health ai in predictive analytics for mental health interventions cognitive neuroscience and ai for understanding mental health disorders teletherapy and ai enhanced virtual mental health care natural language processing in analyzing mental health data training mental health professionals on ai utilization submissions may include original research comprehensive reviews and case studies offering novel methodologies showcasing real world applications or presenting critical insights into current challenges and future possibilities contributions that merge perspectives across healthcare ai data science and ethics are particularly desirable to ensure a balanced advancement that prioritizes patient safety data integrity and equitable access to technological innovations in healthcare

it is with great pleasure that we present to you a collection of over 200 high quality technical papers from more than 10 countries that were presented at the biomed 2008 the papers cover almost every aspect of biomedical engineering from artificial intelligence to biomechanics from medical informatics to tissue engineering they also come from almost all parts of the globe from america to europe from the middle east to the asia pacific this set of papers presents to you the current research work being carried out in various disciplines of biomedical engineering including new and innovative researches in emerging areas as the organizers of biomed 2008 we are very proud to be able to come up with this publication we owe the success to many individuals who worked very hard to achieve this members of the technical committee the editors and the international advisory committee we would like to take this opportunity to record our thanks and appreciation to each and every one of them we are pretty sure that you will find

many of the papers illuminating and useful for your own research and study we hope that you will enjoy yourselves going through them as much as we had enjoyed compiling them into the proceedings assoc prof dr noor azuan abu osman chairperson organising committee biomed 2008

this book contains best selected research papers presented at ictes 2024 ninth international conference on information and communication technology for competitive strategies the conference will be held in jaipur india during 19 21 december 2024 the book covers state of the art as well as emerging topics pertaining to ict and effective strategies for its implementation for engineering and managerial applications this book contains papers mainly focused on ict for computation algorithms and data analytics and it security the work is presented in ten volumes

with the growing interest in the use of technology in daily life the potential for using wearable wireless devices across multiple segments e g healthcare sports child monitoring military emergency consumer electronics etc is rapidly increasing multibillion wearable sensors are predicted to be in use by 2025 with over 30 of them being new types of sensors that are only beginning to emerge this book will focus on wireless wearable and implantable systems flexible textile based electronics bio electromagnetics antennas and propagation radio frequency rf circuits sensors security of wearables and implantable systems nano bio communication and electromagnetic sensing

electrocardiogram ecg plays an enormous role in the medical field an electrocardiograph is a device used in cardiology which records heart s electrical signals over time ecg can be used to determine various heart diseases or damages to the heart along with the pace at which the heart beats as well as the effects of drugs or devices used to control the heart the interpretation of the ecg signals is an application of pattern recognition the technique used in this project integrates the study of the ecg signals and their classification analysis of ecg signals is done using neural network pattern recognition and classification methods the study includes simulation of ecg signals comparison between ecg signals and detection of any abnormalities in the signal by using effective learning algorithms pattern recognition techniques the processed signals used in this project are obtained from an arrhythmia database which was developed for research in cardiac electrophysiology by massachusetts institute of technology beth israel hospital mit bih

the neural clustering application available in the pattern recognition tool software is used to classify ecg signals based on self organizing maps self organizing maps are used to cluster the data based on the similarity and topology which reduces the dimensionality of the data thus after training the network using the classification tool a given ecg signal can be classified as normal or arrhythmic signal based on its features

this volume of the periodical includes papers which describe improvement of analysis and measurement methods that are used in the biomedical practice development and utilization of modern biomaterials and various techniques of diagnosis therapy and treatment in medicine we hope that this issue of our journal will be useful for researchers and engineers developing different branches of applied science related to biomedical engineering

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