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Interpretation 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.

Neural networks do
well at capturing the
nonlinear nature of the
signals, information
granules realized as

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fuzzy sets help to confer interpretability

on the data and evolutionary

optimization may be critical in supporting the structural ...

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how the various

paradigms of

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Computational Intelligence, employed either singly or in combination, can produce an effective structure for obtaining often vital information from ECG signals.

Neural networks do well at capturing the nonlinear nature of the signals, information granules realized as fuzzy sets help to confer interpretability on the data and evolutionary

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Classification And

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Interpretation ...!

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

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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.

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Computational
Intelligence. Adam
Gacek, Witold Pedrycz.
Springer Science &
Business Media, Sep

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18, 2011 - Technology

& Engineering - 278

pages. 0 Reviews.

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editors.

Classification And

ECG signal

processing,

classification and

interpretation ...

Finally, extracted features are classified by using SVM,

Adaboost, ANN and

Naïve Bayes classifier

to classify the ECG

signal database into

normal or abnormal

ECG signal.

Experimental result

shows that the

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accuracy of the SVM,

Adaboost, ANN and

Naïve Bayes classifier

is 87.5%, 93%, 94 and

99.7%.

Framework Of

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Classification Using

Various Machine

Learning ...

Hospital ECG detection

is divided into

detection EEG and

Holter ECG

detection. This paper

mainly summarizes

ECG signal denoising,

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**Intelligence
[ECG Signal
Processing Methods
and Application]**

The proposed ECG heartbeat classification method is divided into four parts, namely, pre-processing, heartbeat segmentation, feature extraction, and

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classification, which is

briefly depicted in Fig.

1. Our main

contribution is in the

third section, that is,

feature extraction. (1)

Heartbeat

classification using

projected and

dynamic ...

Developments and

Applications for ECG

Signal Processing:

Modeling,

Segmentation, and

Pattern Recognition

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covers reliable techniques for ECG signal processing and their potential to significantly increase the applicability of ECG use in diagnosis. This book details a wide range of challenges in the processes of acquisition, preprocessing, segmentation, mathematical modelling and pattern recognition in ECG signals, presenting

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practical and robust
solutions based on
digital signal
processing ...

Comprehensive

**Developments and
Applications for ECG
Signal Processing ...**

Neurocomputing in
ECG Signal

Classification.-

Knowledge-based

Representation and

Processing of ECG

Signals: A Fuzzy Set

Approach.-

Evolutionary

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Intelligence
Optimization of ECG
Signal Analysis and
Classification.-
Granular Models of
ECG Signal Analysis
and Their Refinements
and Abstractions.-
Hybrid Architectures of
ECG Analyzers and
Classifiers. Part III: Com
putational-intelligence-
based ECG System
Diagnostic,
Interpretation and
Knowledge Acquisition
Architectures.-

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Classification And

ECG Signal Processing, Classification and Interpretation ...

Electrocardiogram

(ECG), non-stationary signals, is extensively used to evaluate the rate and tuning of

heartbeats. The main purpose of this paper is to provide an overview of utilizing machine...

(PDF) ECG signals classification: a review

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The data consists of a set of ECG signals sampled at 300 Hz and divided by a group of experts into four different classes: Normal (N), AFib (A), Other Rhythm (O), and Noisy Recording (~).

This example shows how to automate the classification process using deep learning.

Classify ECG Signals Using Long Short-Term Memory

Page 21/28

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Processing
Networks ...

Robust ECG signal
classification for
detection of atrial
fibrillation using a
novel neural network
Abstract:

Electrocardiograms
(ECG) provide a non-
invasive approach for
clinical diagnosis in
patients with cardiac
problems, particularly
atrial fibrillation (AF).
Robust, automatic AF
detection in clinics
remains challenging.

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Robust ECG signal classification for detection of atrial ...

An Electrocardiogram (ECG) is defined as a test that is performed on the heart to detect any abnormalities in the cardiac cycle.

Automatic classification of ECG has evolved as an emerging tool in medical diagnosis for effective treatments.

The work proposed in

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this paper has been
implemented using And
MATLAB.

Interpretation A
Comprehensive
**Classification of
Arrhythmia from
ECG Signals using
MATLAB**

SREEDEVI GANDHAM,
ANURADHA BHUMA,
ECG FEATURE
EXTRACTION AND
PARAMETER
EVALUATION FOR
DETECTION OF HEART
ARRHYTHMIAS, i-
manager's Journal on

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Digital Signal
Processing, 10.26634/j
dp.5.1.13530, 5, 1,
(29), (2017).

Comprehensive

Electrocardiogram

(ECG) Signal

Processing - Sörnmo

...

The electrocardiogram
(ECG) is used to
investigate some types
of abnormal heart
function, including
arrhythmias and
conduction
disturbances, as well

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as hear morphology.

The classification of

ECG signals plays an

important role in the

diagnoses of heart

diseases. In addition,

biometrics using the

ECG have been

successfully performed

recently.

Special Issue

"Electrocardiogram

(ECG) Signal and Its

...

Almost every computer-

aided ECG

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classification approach

involves four main

steps, namely, the

preprocessing of the

ECG signal, the

heartbeat detection,

the feature extraction

and selection and

finally the classifier

construction.

Copyright code:

[d41d8cd98f00b204e98](https://doi.org/10.1109/98.987654)

[00998ecf8427e.](https://doi.org/10.1109/98.987654)

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