Abstract

The abnormal condition of the electrical activity in the heart is using electrocardiogram shows a threat to human beings. It is a representative signal containing information about the condition of the heart. The P-QRS-T wave shape, size and their time intervals between its various peaks contain useful information about the nature of disease affecting the heart. This paper presents a technique to examine electrocardiogram (ECG) signal, by taking the features form the heart beats classification. ECG Signals are collected from MIT-BIH database. The heart rate is used as the base signal from which certain parameters are extracted and presented to the network for classification. This survey provides a comprehensive overview for the classification of heart rate.

References

- Leif Sornmo, Pablo Laguna. , Electrocardiogram (ECG) Signal Processing&quot;.
- Afonso, V. X. , Tompkins, W. J. , Nguyen, T. Q and S. Luo. 1999. ECG beat detection
- Chouhan, V. S., Mehta, SS and Ligayat, N. S. 2008. Delineation QRS Complex, P and T wave in 12 Lead ECG&amp;quot;JCSNS Vol. 8 No. 4.
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- Awadhesh Pachauri and Manabendra Bhuyan. Robust Detection of R-Wave Using Wavelet Technique, World Academy of science, Engineering and technology 56-(2009)
- Tayel, M. B and El-Bouridy, M. E. 2006. ECG Images Classification Using Feature Extraction Based On Wavelet Transformation And Neural Network, ICGST, International Conference on AIMG.
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Index Terms

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