Abstract

The Phonocardiogram (PCG) signals contain very useful information about the condition of the heart. By analyzing these signals, early detection and diagnosis of heart diseases can be done. It is also very useful in the case of infants, where ECG recording and other techniques are difficult to implement. In this paper, a classification method is proposed to classify normal and abnormal heart sound signals having murmurs without getting into the cumbersome process of segmenting fundamental heart sounds (FHS) using Electrocardiogram (ECG) gating. The proposed algorithm can be easily implemented on latest electronic stethoscopes, and therefore the unnecessary ECG can be avoided.

References

Heart Sounds Classification using Feature Extraction of Phonocardiography Signal


Index Terms

Computer Science  
Signal Processing

Keywords

Heart sounds  
Murmurs  
Feature extraction  
Naïve Bayes  
Bayes Net classifier.