

ABSTRACT

Heart is the most important organ in our body, so heart is always prosecuted in a good condition and can't be denied again that someone has the possibility of suffering from heart disease arrhythmia. In detecting heart condition is needed Electrocardiogram (EKG) method that can analyze the condition of human heart. Local Features is one method of feature extraction that can know the number of heartbeats and can assist in the classification process that will be performed by the Support Vector Machine (SVM). In the classification feature performed by SVM, obtained the accuracy of the two data used. For the most accurate 67% normal ECG accuracy data generated from linear kernel SVM and RBF, for the largest accuracy EKG arrhythmic data is 83% generated by linear kernel. Kernel differences affect the accuracy of each data depending on the characteristics of each ECG data used.

Keywords: Arrhythmia, Electrocardiogram, Local Features, Support Vector Machine