

ABSTRACT

Along with the times, music evolves quickly within a relatively short time. Music has a whole range of genres such as: Classical, Rock, Reggae, Country, dan Jazz The music genre is a category of works of art, in this case especially music, to characterize and categorize the music is now available in various forms and sources. Automatically classifying musical genre can be very helpful in the development of retrieval system for audio data. Digital Signal Processing in the scope of audio signal is evolving rapidly, in terms to produce a system that works digitally. So we need a development of methods and algorithms that can accurately classify genre.

In this Final Project studied the methods of genre classification using Linear Discriminant Analysis. Linear Discriminant Analysis method is a simple classification method. Establishment of classification models Linear Discriminant Analysis to collect characteristic of training data or reference data to be training data during testing. Where the genre classification process begins with choosing the song files will be classified its genre, then performed the process of preprocessing, retrieval characteristics by using feature extraction, and final classification process Linear Discriminant Analysis to produce the kind of genre of the selected song file. Feature extraction is a process to get feature of signal where it can be distinguished with other kind of signal and become an input for LDA system classification. The result of feature is represent with number.

The experiment is testing to music genre of Classical, Rock, Reggae, Country, and Jazz using the method of Linear Discriminant Analysis method. The scenario of testing is executed with the amount of train data 50 and test data 50 in each genre, against the parameter of kind and Order of Filter and best parameter is obtained, that is Butterworth filter kind with order 3. After the testing is executed towards the classification of 5 music genres, result is obtained with 85% with Linear Discriminant Analysis.

Keywords: Classification, music genre, Linear Discriminant Analysis