

## ***ABSTRACT***

The rapid growth in audio processing is felt much help in advancing the development of digital music . The music consists of a wide variety of genres and types of music in accordance with the content . Primarily on the development of digital music genre classification has been perceived assist in the ease of studying and looking for a song . It encourages the creation of ease of variation of genre classification that is able to optimize the learning process can be done easily , simple and has a good quality in a song search accuracy .So we need a development of the learning process with a variety of methods and algorithms better . And in its development is restricted only to the first genre classification have good quality in classification accuracy .

In this thesis , an examination of how developed a genre classification have good quality in classification accuracy using a frequency content characteristics and classification using Hidden Markov Models.Parameters of the test scenarios and the Order Type Filters best parameters obtained are type -order Butterworth filter with a 5 . After testing the 3 genre classification is a pop song , rock , and dance , the highest accuracy was 80 % for the amount of training data 40 of each genre , the sheer number of test data 10 of each genre , quantization characteristic of 20 , and HMM training iterations for 150.

***Keywords:*** Classification, music genre, Hidden Markov Models