

Abstract

Musical genres are one of digital music metadata created by human to be categorized by the common characteristics shared by its members. These characteristics typically are related to the frequency content, rhythmic structure, instrumentations, and also the harmony content itself. Genre hierarchies will be so usefull to structure the large collections of music that now available freely on the Web. Currently musical annotation is performed manual. Automatic musical genre classifications can replace the human user in this process so that this kind of classification will not be relative anymore and can be classified by its standarization.

In this research, two kinds of feature extractions, the frequency content feature and the timbral texture feature, with a Linear Vector Quantization of neural network method are proposed. And the input were in the WAV format with 30 second duration. Using the first feature extractions, classification of 96.67% for 5 musical genre is achieved and 92.67% for the second one.

Keywords: Audio classification, feature extractions, musical genre clasifications, Learning Vector Quantization.