

Abstraction

Neuro fuzzy modeling system is a merger of a neural network and fuzzy systems. The purpose of the combined method is to construct a fuzzy system that has the ability to learn. In order to implement the ability to learn on the fuzzy system, as one of the ways is to build a fuzzy system in a neural network architecture. Then came one of the methods that merger of neural network and fuzzy system called Neuro Fuzzy Classification system or commonly called the nefclass.

For examples of cases that can be applied is "Music Genre Classification". Each of the existing music genre has the characteristics of each to be recognized by the audience. With his hearing aid, people can classify music based on the characteristics of the music he heard. Not infrequently the determination made by the human genre is determined by using the feeling. One way that can be done to identify the characteristics of the music is by using the timbral texture feature. Yet another case with a machine that requires learning to recognize patterns and classify a music based on genre.

At this final project was concluded that by using nefclass system, can perform the classification of music genre with the performance by 74% by using the characteristic spectral centroid of the timbral texture feature music.

Keywords: Classification, neuro-fuzzy, genre, music