Abstract

Music genre widely use by music industry and music shop for searching and retrieval. In human being, music genre recognizing can be heard easily by ear, which the hearing system by human's ear have great ability for doing audio recognizing process in human's brain. So, while classify the music for one certain genre have subjective values. However in music genre classification is hard to be done and being subjective, there will be specific features that can be used for classifying.

In this final project, it is implemented the usage of artificial neural network Neural Gas which basically is clustering algorithm will be use in classifying music base on its genre. The usage of this clustering algorithm is usefull for neurons making which obtain from certain patterns learning process. So the Neural Gas could recognize a new coming pattern ideally. The observation for Neural Gas done by combined certain optimal parameters which obtained the highest accuration rate at 92%.

Keywords : genre, clustering, classification, Artificial Neural Network, Neural Gas