Abstract

Data mining is a method which search important information from large database which not use againt or not active, information that is searched by make and analisist pattern from big dataset. The pattern is result of an algorithm process and in data mining have a lot methods or algorithm which is used.

Developing data mining has more used in several part like telecommunication, bioinformatics, economic, etc. Analyzing implementation from neural network algorithm for detect an outlier/anomaly, Data mining is focused to unsusal dataset or noise, with use neural network kohonen algorithm for clustering that is collect data based on distance and find small cluster which have long distance or far from other big cluster, this cluster is defined as outlier. For datas which have class lable will evaluate clusters base on class lable to find incorrectly and anomaly from some cluster. The result from this research is how big capability of kohonen neural network algorithm can find anomaly with try many different parameter like learning rate, neighbourhood, max epoch, and num cluster. Analisis of class to cluster resulting analisis to rare case anomaly.

Keywords: *Data Mining, Clustering, kohonen Neural Network, Outlier Detection, SOM.*