ABSTRACT

Indonesia is a big country with a diversity of cultures and tribes so that Indonesia has many languages or dialects different from one region to another because of this difference the author will create an application that will help the community to avoid misunderstanding in interpreting a regional language.

Deep learning of a model of artificial *Neural Network* which recently began to be developed. A common approach used to implement Deep Learning is graphical methods or Multi*Layer* Representation, or Multi*Layer* Graphical models such as Belief Network, *Neural Network*, Hidden Markov, and others. Deep Learning has shown good results in improving the accuracy of *speech recognition* or other similar cases. in this case will create a system or program *speech recognition* with *Recurrent Neural Network* method using manado dialect.

From the results of research conducted, from the value of certain parameters obtained an accuracy of 88%. After obtaining the ideal parameters then do the overall test of the system as much as ten times and the average accuracy obtained by 87%. From these tests it can be concluded that, the more *epoch* and training data that many will increase the accuracy level.

Keywords : Recurrent Neural Networks, Speech Processing, Dialek, Neural Networks.