ABSTRACT

Human speech recognition technology have been become most research. ASM (Automatic Speech Recognition), NLP (Natural Language Processing) and so on are example in human speech recognition. In this final task my orientation is combined ASM and psychology knowledge. Some people spoken dialogue is represented one of aspect for their emotion. This research take an example from some people spoken dialogue, with result that someone emotion can be researched. In training this research are used quickprop algorithm with neural network multi-layer perceptron method based on speech prosody.

The system work is doing extract any speech input that kind of file is wave (*.wav) based pitch (F0) and energy (VRMS) parameter, grouping and then divide become training data and testing data. The data's then processing using neural network quickprop. After training then calculate successfully analysis factor (on % thorough level). Kind of emotion in this research are angry, happiness, sadness and norm.

This research have been succesfull with getting 90% accuration prediction, from this research hopefully could be developed for any interest psychology knowledge with information technology. In examples combined with robotic technology for intuition vinicity, using telephone on telecommunication, interrogation on polish department and so on.

Keywords: Spoken Processing, Neural Network, Quickprop, Emotion, Prosody.