Assignment5

Part3: Applications Of Neural Network

Application 1: Simultaneous Interpreting

In the meeting of “Computing and Nature at 21st Century”, researcher from Microsoft displays a machine translation system. The system firstly translates spoken English to writing English. Secondly, interpret writing English to writing Chinese. Finally, translate writing Chinese to spoken Chinese. All those three processes are simultaneously, and the spoken Chinese are not like machine sound but like the researcher who give the presentation although the researcher spoken English. This machine translation system is based on neural network algorithm and there are nine layers.

Application 2: speech system in Android OS 4.1

In Android OS 4.1, the speech system makes a big improvement. By using neural network algorithm, the system can understand what user’s meaning better. The speech system picks up useful information based on vowel and consonant firstly. Then the system deals with the information by combination, analysis, and prediction. In the process of analysis and prediction, scientists using neural network.