

Abstract

At this final project will be made a human speech number signal recognition system with Long Short-Term Memory (LSTM) neural networks method using personal computer. Speech number signal has been fixed before with use isolated digit pattern. For extraction process of voice parameter using Linear Predictive Coding (LPC) method. LPC's output will be proceed with LSTM neural networks for doing recognition. Forty voices sample from speakers will be used as input at training process of neural networks and the other forty voices sample will be used at testing process.

Keywords: speech number signal recognition, neural networks, long short-term memory, isolated digit, linear predictive coding