

ABSTRACT

Communication is an essential element in human social life due to communications enable people to exchange information, these activities can be done with the conversation. As a phone, there are often disturbances coming from the delivery process to the addition of noise. In communication systems, noise can cause the signal quality drops, the effect of noise also affects the receiver to know the meaning of the speech.

In this Final Project will create a system that describes the communication process, where the system is composed of parts, transmitter, transmission media, Receiver. It is assumed that information is sent in the form of a speech signal. The signal was sent from the transmitter to Receiver through the transmission media. After the signals are sent from the transmitter, the signal is added to the noise that assumes comes from the transmission media. On the transmitter side there is noise sound signal quality will be improved using Spectral subtraction method.

The results of the calculation of the final results of the system with few parameters that is, MSE, SNR and MOS. The result of the calculation is smaller MSE value is there noise, the greater the error value, and the greater the value of existing noise, the smaller the error value from the sender to the recipient. The result of the calculation is the value of existing SNR 30 dB noise vector value comparison existing noise speech signal with a signal higher in comparison with the existing value noise 50 dB and 70 dB, MOS value is taken from the questionnaire.

Keywords: communication systems, noise, Spectral Substraction

