

ABSTRACT

Impulse response of the room can be one of the acoustic parameters of a room. From the Impulse Response, it can be observed that the reflection that occurs in the room is received at each listener's position. Impulse response of the room can be described in terms of sound pressure level with time. From this description, it can be seen that the sounds received by each listener are direct, initial, and buzzing sounds. The impulse response can also be used to calculate the reverberation time of a room.

Data retrieval to get the results of the Impulse Response of the room using a data acquisition system. Data acquisition is the process of taking data from sensors that are converted into electrical signals and digital formats that will be processed and analyzed through a computer. The acquisition data is transmitted using wifi from the multisensor to the computer as a processing unit. The data displayed is in the form of wav data (wave audio format).

In this study the authors measure the Quality Of Service with 4 parameters, namely delay time, throughput, Jitter and Packet Loss. This test is only Packet Loss whose index is very good with index 4 because the packet loss is 0% while for Jitter, throughput and delay time with an index value of 1 which means Bad or Not good.

Keywords: *Impulse Response, Wifi, Multisensor, Data Acquisition, quality of service.*