

ABSTRACT

This moment that telecommunication multiuser with channel must design efficiently. Therefor, it is needed code system at channel information that destination can reach on the receiver similar as the authentic data.

Video is one of an others information media. But there some problems in transmission, that is bandwidth that use for wireless or Internet Protocol (IP) need greater. Because of that it is usefull to make a video codec that can compress for bandwidth efisiently purpose but not diminist the quality of video that tranmisiioned.

There are many kinds of video codecs that can be used for example H.263, H.264 MPEG and others.

Video transmission use coding constitutes new case. There are many transmission methode that use compression that can be implemented in Lossless or Lossy channel. One sample of that methodes is Wyner Ziv.

The background of research in this final project that is H.263 that done be research and concern, but not be simulated in this final project just Wyner Ziv system that had been simulated.

The analysis of this final project is focused in the effect of the differentiation of the SNR value of the Lossy channel by using simulation AWGN noise concerning for the video performances that transmitted by knowing the PSNR average the video that transmitted.

Form the simulation result indicate that PSNR Average value higher if using Wyner Ziv coding then without using It, the value is about 13.23 dB for the code video and about 13.11 dB in uncode vide. And more than it the PSNR Average have maximum value if the level noise from the AWGN is about 10 dB untill 20 dB.