

ABSTRACT

Technology were made because of the increasing of human needs. Followed by human necessity therefore the technology must be developed. Video was made because of the necessity to capture all moments then brought them into the media which anyone could see them again. In the next development of technology of Video, It has 2 form of technologies. They are analog technology and digital technology. Nowadays, there are so many discovery on complex compression algorithm to produce better video quality and it makes the technology of video compression developed. The expansion of video compression technology is depend on the development of computer hardware technology to gain the speed for complicated algorithm processing. The most popular form of video is MPEG (*Moving Picture Experts Group*) which still be developed from MPEG-1 until MPEG-4.

Video enhancement technique in order to enhance a video with poor quality. Degradation video quality effected with noise on image, sensors ability, limited storage, and also short time processing that it could produce a poor video quality. We hope with this video enhancement technique could enhance the video quality to a good quality or at least better than before.

This Final Project is use Hadamard Transform and Wavelet Transform to enhance the MPEG-1 video quality.

Keywords : MPEG-1, Video Enhancement, Hadamard Transform, Wavelet Transform, noise.