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**A PROJECT REPORT
ON
“DATA HIDING IN MPEG VIDEO FILES USING
FLEXIBLE MACROBLOCK ORDERING”**

**For
BACHELOR OF ENGINEERING
In
ELECTRONICS AND COMMUNICATION ENGINEERING**

**Submitted
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ABSTRACT

The flexible macroblock ordering feature of H.264/AVC used to hide message bits. Macroblocks are assigned to arbitrary slice groups according to the content of the message bits to be hidden. A maximum payload of three message bits per macroblock is achieved. The proposed solutions are analyzed in terms of message extraction accuracy, message payload, and excessive bit rate and quality distortion. Comparisons with previous work reveal that the proposed solutions are superior in terms of message payload while causing less distortion and compression overhead. Steganography is a process that is used to hide a secret message within a video file. Steganography is helpful, when sending a secret message between two parties. Steganography is done by using a video file of the format AVI/MPEG and a text file which is used to embed the data within AVI/MPEG file. This process is done by using the Least Significant Bit Algorithm using an AVI/MPEG file and the data file. In the de-steganography process the reverse Least Significant Bit Algorithm is done to extract the data from the AVI/MPEG file and the keyfile. The video file can be chosen which has less color in it preferably grayscale, since the human eye can't make out the change in the video.