VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI



A PROJECT REPORT ON

"VIDEO STEGANOGRAPHY FOR SECURE COMMUNICATION FOR MILITARY APPLICATION"

Submitted in partial fulfillment for the award of Degree of,

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE & ENGINEERING

By

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CERTIFICATE

This is to certify that the project entitled "VIDEO STEAGANOGRAPHY FOR SECURE COMMUNICATION FOR MILIARY APPLICATION" has been successfully completed by

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the bonafide students of DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2018-2019. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

Steganography is hiding private or secret data within a carrier in invisible manner. The medium where the secret data is hidden is called as cover medium which can be an image, video or an audio file. Any stego algorithm removes the redundant bits in the cover media and inserts the secret data into the space. Higher the quality of video or sound, more redundant bits are available for hiding. To provide secure communication between the users by using the video Steganography is used. Here to provide a secure transfer of the data in the military information using video Steganography by applying the Diffie- Hellman algorithm used for key generation and LSB matching revised algorithm this method creates an index for the secret information and the index is placed in a frame of the video itself. With the help of this index, the frames containing the secret information are located. Hence, during the extraction process, instead of analyzing the entire video, the frames containing the secret data are analyzed with the help of index at the receiving end. This both techniques used for encrypt and decrypt the data.