

DIGITAL FORENSIC STEGANALYSIS OF ENCRYPTED INFORMATION WITH SPECIAL REFERENCE TO THE MP4 VIDEOS

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Computerized information correspondence has turned into an integral piece of foundation these days and the security and the privacy of them assumes an essential part. Cryptography and Steganography are being two major methods having a wide usage, which secure information. Steganography conceal secret information and does not leave evident proof of information modification. Out of numerous techniques of application of Steganography, current study focused on End of File Injection technique. The study investigated the Steganalysis of Mp4 type videos, which were encrypted utilizing the above technique. A pool of Mp4 videos consisted of several qualities and capacities were tested and evaluated. A detector system was developed which was capable of identifying the presence of Steganography within the Mp4 videos, thus the system can be further used to scan the suspected Mp4 videos and give the results whether it has embedded data or not. The system reported a higher accuracy level of detecting Mp4 Stego-videos, which used the said techniques for data embedding. Further studies are needed to cover other video formats and other techniques of Steganography. The development of the field would reveal new paths in digital forensic investigations.

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