ABSTRACT

Nowadays, technology and information have been developed rapidly, everyone can easily access and send data or information. This may lead to a weakened security system, so it should be improved. To enhance security and protect secret information, we can use Steganography. Steganography is a technique of hiding messages into a medium, the medium used in Steganography are Text, Picture, Sound, and Video. In text steganography, there are various kinds of techniques. But the most commonly used are Line-Shifting technique and Word-Shifting technique. This research will be focused on Word-Shifting technique in text steganography to detect messages in scanned documents using the Centroid method. In this final project, the steganography uses Portable Document Format (.PDF) document with scenario variation of font type, the variation of font size, file size and message detection using the Centroid method. The result is, the font type and size of the letters affected the size of the cover document, but it did not affect the process of message insertion and message retrieval. The more characters in the PDF document, the more secret message that can be inserted using the word-shift method. In this research, the file size of stego-document decreased after the insertion of messages, and the Centroid value of each document image that has been scanned is various, too.

Keywords : Text Document, Steganography, Word-Shifting, Centroid