Abstract

Sending message from cellular phone is common used now, but the security of message could not reliable. The security of message for example, message that contains PIN number or password, must be protected from unauthorized people. Message, which is used for police private operation, like arrest or raid criminal operation, also must be protected in order its information is not leak. So that, application for hiding message from unauthorized people is needed. Hiding message by image steganography can hide sent message on image media so unauthorized people does not know that image is inserted by private message.

LSB is one of steganography algorithm which is used for this thesis, with BBS for randomization insertion place. Before inserting the message, half-byte packing is used for compretion. Image steganography is sent through MMS by cellular phone.

After the experiment, it is prove that LSB steganography with BBS randomization and compretion, LSB can hide message and can be implemented on cellular phone. BBS randomization can produce different message if the key is wrong. Half-byte packing compretion can compress the message with space savings until 42%.

Keywords: steganography, LSB, BBS, half-byte packing, MMS.