

ABSTRACT

Today the business development of digital content has progressed very rapidly. But these advances also gave birth to new opportunities for classic crime in the field of information technology, that is piracy. Content that should be the legal property of the manufacturer and is legally owned by the person who bought it, could easily be misused by parties who are not responsible. The reasons of the use of digital data are the easily distribution over the internet, also due to the ease and grace in the multiplication and storage for future use. One form of digital content which is quite often be a victim of piracy is the multimedia data.

In this final project the task that have been done is implementation of Luc algorithm on multimedia data in the framework of security for the distribution process of multimedia data. The reason of the use of Luc algorithm are in terms of security levels that have in common with the methods of the most powerful and widely used today (exponent based methods), also due to the fact that Luc algorithm is an public key cryptography algorithm so that Luc algorithm does not require the security process in the distribution of the key.

Based on the results of testing, the system of encoding multimedia data using Luc algorithm has good performance. Average encryption speed is 170 Kb/second, while the average decryption speed is 163 Kb/second. The ratio between the resulting ciphertext and message is 1,01.

Keywords : *encryption, multimedia data, Luc algorithm, encryption, decryption*