

ABSTRACT

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FAST AND SECURE DATA TRANSMISSION USING RSA ENCRYPTION AND LOSSLESS COMPRESSION

As the result of growth in technology utilization, the usage of data has increased. Transfer of data from one system to other system is made possible with new technologies. This results in the problems of security and dependability. In order to provide efficient transfer of data without allowing intruders to guess data, security plays the important role. Dependability is to recover original data in case of any errors. In order to achieve these two properties several algorithms came in existence. Usage of these algorithms results in fast and secure transfer of data

The base paper focus on LEC(Linear Error Correction) mechanism which encodes the data and also it pads redundant data so that we can retrieve original data in case of any errors during transmission. In addition to LEC, Compression algorithms are also added to achieve faster transmission.

This abstract focus on using RSA algorithm instead of LEC encoding. The reason for choosing RSA is that LEC is more complex as it involves permutations. RSA with LZW compression technique is used for faster transmission and it provides more security as well.

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