Research proposal

1 Applying double graph theory to secure data by cryptography

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Bhuvaneshwari R, rbhuvaneshwari2205@gmail.com

2 Area of research & Domain of research

Graph Theory & Cryptography

3 Objective of the proposal

A short clear description of the proposed work. What are you planning to do?

The aim of this proposal is that the adjacency matrix concept is used in encryption and decryption key techniques which is a safer method when compared with other measures. The Double transposition column method to create schemes that will be unbreakable at a reasonable time.

4 Background/short description

Why are you doing it? Answer the following key questions.

1. What problem are you trying to solve?

   The Double transposition column method to create schemes that will be unbreakable at a reasonable time.

2. Is the solution already available?

   The solution is available but it has single transposition

5 Expected results

What will come out of the project?

encryption and decryption algorithms and limitations of caesar cipher. Applications for banking,electronic commerce.

6 References

1. Graph theory with applications to Engineering and Computer Science -Narsingh Deo, 2010
2. Encryption algorithm using graph theory -WaelMahmoud Al Etaiwai, 2014