Abstract

In current digitized world humane race is facing a great revolution over Internet technologies, as a result every single information needs to be transmitted through a communication network. This results a different level of attack over these information. This attacks, misuse or unauthorized access of this information are greatest concern of today’s world. Steganography means "covered or hidden writing", originated from Greek language, an ancient art of protecting information. Considerable amount of work has been carried out by different researchers on Steganography. In this paper the authors propose a novel text steganography method based on ASCII Mapping Technology (AMT) on English language producing stego text with which is visibly indistinguishable from the original cover text. There is an extra level of security which is achieved through a derived quantum gate. This solution is independent of the nature of the data to be hidden and produces a stego text with minimum degradation and applicable for other India languages also. Quality of the stego text is analyzed by tradeoff between no of bits used for mapping. Efficiency of the proposed method is illustrated by exhaustive experimental results and comparisons.
References

- "An Image based Steganography model for promoting Global Cyber Security," by Souvik Bhattacharyya and Gautam Sanyal at the proceedings of "International Conference on Systemics, Cybernetics and Informatics (ICSCI- 2009), Jan, 09, Hyderabad, India.
- "Implementation and Design of an Image based Steganographic model," by Souvik Bhattacharyya and Gautam Sanyal at the proceedings of "IEEE International Advance Computing Conference, (IACC-2009)."


Index Terms

Computer Science

Image Processing

Keywords

AMT (ASCII Mapping Technology) CS gate CSN gate POS file Jaro-Winkler Distance