Abstract

Today’s internet community the secure data transfer is bounded due to its attack on data communication. Security of data can be achieved by implementing steganography techniques. All of the existing steganographic techniques use the digital multimedia files as a cover medium to conceal secret data. Audio file use as a cover medium in steganography because of its larger size compare to other carrier’s file such as text, image. So there are more possibilities to hide large amount of data inside digital audio file. Signals and digital audio files make suitable mediums for steganography because of its high level of redundancy and high data transmission rate. This is not easy to hide data in real time communication audio signals. In this paper we will survey the overall principles of hiding secret data in audio file using audio data hiding techniques, and deliver an overview of present techniques and functions and also discuss the advantages and disadvantages of different types of audio steganographic methods.

References

A Survey on Audio Steganography Approaches

- E Zwicker, H Fastl, Psychoacoustics (Springer Verlag, Berlin, 1990)
- Y Erfani, S Siahpoush, Robust audio watermarking using improved TS echo hiding.
A Survey on Audio Steganography Approaches

- F Djebbar, B Ayad, K Abed-Meraim, H Habib, Unified phase and magnitude speech spectra data hiding algorithm. Accepted in "Journal of Security and Communication Networks". (John Wiley and Sons, Ltd, 4 April, 2012)
- GS Kang, TM Moran, DA Heide, Hiding Information under Speech, Naval Research Laboratory, (Washington, DC NRL/FR/5550–05-10, 126, 2005), 20375-5320
- K Gopalan, A unified audio and image steganography by spectrum modification, IEEE International Conference on Industrial Technology (ICIT&aapos;09), (Gippsl and, Australia, 10-13 Feb 2009), pp. 1–5
- Haider Ismael Shahadi and Razali Jidin, "High capacity and inaudibility audio steganography scheme", 7th International Conference n Information Assurance and Security (IAS), IEEE, 2011
A Survey on Audio Steganography Approaches

- K Gopalan, S Wenndt, Audio Steganography for Covert Data Transmission by Imperceptible Tone Insertion, WOC 2004, (Banff, Canada, July 8–10,2004

Index Terms

Computer Science

Security

Keywords

Robust Security Information Signal stego.