

Steganography and Security Projects

Demonstrations and Presentations

On Thursday 14 May 2009 students from IIT will present three yearlong projects:

- The intelligent use of Tarpits for private network security
- The detection of hidden information in JPEG files
- The best software tool for hiding secret information in mp3 music files

Time and Date: 6:30 – 9:00 pm on Thursday 14 May 2009

Location: IIT's Rice campus, Wheaton Illinois
Forensic & Security Lab (room 250)

Directions: <http://www.iit.edu/rice/about/directions.shtml>

Food and refreshments will be provided. Also plenty of free parking.

Please let us know if you will be coming by sending email to:

Email Address: lidinsky@iit.edu

Subject Line: IIT 14may09

Make sure to include exactly this subject line.

Abstracts:

Using Tarpits for Network Security

Joshua T. O'Connell, Larry E. Potter

This project demonstrates and discusses how tarpits can be intelligently used to secure a private network. The well known LaBrea tarpit (created by Tom Liston) will be used in the demonstration. Insights into current practices blackhats use to detect and avoid tarpits will be discussed. Ways to defeat the blackhats will be demonstrated.

Detecting Hidden Information in JPEG Files

Sendilkumaar Durairaj, Mohamed Ali

Information can be hidden in image files. There are many tools available that will hide information, but only a few that can find hidden information. In fact discovering hidden information is, today, an unsolved problem. But for certain types of image files discovery is sometimes possible. Fortunately one of these is JPEG. But to do so complex statistical analysis is required. This project demonstrates and discusses the use of such analysis.

MP3Stegazaurus: Hiding Secret Information in MP3 Music Files

Mikhail Zaturenskiy

Until the software that you will learn about in this demonstration and presentation, our research uncovered only three software tools for hiding information in MP3 music files. All of these tools have significant limitations including distorting the music itself. *MP3Stegazaurus* overcomes all of these limitations, providing an easy to use, platform independent software tool. It's the best one yet.