

“Guest Lecture on Graph Theoretical Approach to Steganography”

Topic :	Graph-theoretic approach to steganography delivered by Dr.Vinay Kumar, Scientist 'E' in National Informatics Centre, MoCIT, Government of India.
Date of event :	February 11, 2013
Aim of the Event :	The aim of event is to aware the students about graph-theoretic approach to steganography based on the idea of exchanging rather than overwriting pixels. He implemented an algorithm based on this approach with support for several types of image and audio files.
Description of the event :	<p>The speaker started his session by explaining meaning of steganography & how it relates to the images and audio file. He covered following aspects:</p> <ul style="list-style-type: none"> ✚ He constructed a graph from the cover data and the secret message. Pixels that need to be modified are represented as vertices and possible partners of an exchange are connected by edges. ✚ An embedding is constructed by solving the combinatorial problem of calculating a maximum cardinality matching. ✚ He implemented an algorithm based on this approach with support for several types of image and audio files and conducted computational studies to evaluate the performance of the algorithm. <p>Sir also explained the practical implementation of all above</p>

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