

Data hiding fundamentals and applications - content security in digital media

Elsevier Academic Press - Digital Literacy Fundamentals

Possible approaches

Message hiding in the image data - greedy techniques

Decrease color depth and expand

1. Collapse 256 colors → 128 colors
2. Expand 128 colors → 256 colors by including a close color (e.g., flip the LSB of the blue channel)
3. Embed a binary message into the LSB of the blue channel of randomly selected pixels
4. Read the message from the LSB of the blue channel 1 bpp

Alternatively

1. Decrease color depth to 32 colors and include all colors obtained from LSB shuffling of all 32 colors (one color produces 2² new colors)
2. Encode messages into the LSB of pixel colors 3 bpp

Description: -

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Military service, Voluntary

Data encryption (Computer science)

Multimedia systems -- Security measures
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Notes: Includes bibliographical references (p. 231-238) and index

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[PDF] Fundamentals Of Multimedia

In this chapter, we also highlighted a set of data hiding attacks that a practical system needs to be robust against. Downloading or distributing the documents could be controlled by the hidden data in the documents.

[PDF] Techniques for Data Hiding

Each cropping is the erasure of 12 lines of pixels in either horizontal or vertical dimension. This communication modality might control or restrict access of multimedia content and carry out e-commerce functions for pay-per-use implementations.

SkillsFuture Series

The seed H is input to an RSG G to generate the signature sequence WI . With this criterion, optimization of parameter values is by maximizing Eq. IEEE Transactions on Signal Processing, 51 4 :1003—1019, 2003.

Data Hiding Fundamentals and Applications

Introduction Multimedia technologies are becoming more sophisticated, enabling the Internet to accommodate a rapidly growing audience with a full range of services and efficient delivery methods.

Data Hiding Fundamentals and Applications

In quantization-based methods, this effort has resulted in the incorporation of embedding quantization with a postprocessing function and redundancy coding of the watermark signal. IEEE Journal on Selected Areas in Communications, 16 4 :510—524, 1998.

Digital Forensics

Figure 1-1 displays the block diagram for steganographic communication as compared to traditional communication systems.

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