

## Watermark for Digital Images

**Track Code:** 96095

**Categories:**

- Computer Technology

**Keywords:**

- Computer Security
- Software

The growth of networked multimedia systems has created a need for robust authentication of digital images. Currently, the owner of an image placed on a network has no method to detect altered copies of the image.

Purdue University researchers have developed a way for an owner to digitally "sign" an image by adding an invisible structure known as a digital watermark. The owner can identify changes made to the watermarked image with the verification algorithm. This test can allow images with minor alterations to still be authentic. JPEG image compression is compatible with this algorithm.

**Advantages:**

- Rapid and robust authentication of images
- Decreased chances of forgery

**Potential Applications:**

- Computer Security
- Software Industry

**People:**

- Delp III, Edward John (Project leader)
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**Intellectual Property:**

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**Country of Filing:** United States

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