

FEATURES CLASSIFICATION FOREST: A
NOVEL DEVELOPMENT THAT IS
ADAPTABLE TO ROBUST BLIND
WATERMARKING TECHNIQUES

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ABSTRACT

- A novel watermarking scheme is proposed that could substantially improve current watermarking techniques.
- This scheme exploits the features of micro images of watermarks to build association rules and embeds the rules into a host image instead of the bit stream of the watermark, which is commonly used in digital watermarking.
- Micro images with the same rules are collected or even created from the host image to simulate an extracted watermark



EXISTING SYSTEM

- Images are an essential medium that is frequently used in communications and are widely spread throughout the Internet.
- The ease of access to this medium has brought about a critical issue, which is intellectual property infringement, such as tampering, impermissible copying, or even unauthorized redistribution for business.
- To protect the owners from certain illegal actions, many researchers have struggled to obtain appropriate solutions to achieve this goal, and thus far, the most common technique in this field is digital watermarking



PROPOSED SYSTEM

- Features Classification Forest, can achieve blind extraction and is adaptable to any watermarking scheme using a quantization-based mechanism.
- A larger size watermark can be accepted without an adverse effect on the imperceptibility of the host image.
- The experiments demonstrate the successful simulation of watermarks and the application to five different watermarking schemes.
- One of them is slightly adjusted from a reference to especially resist JPEG compression, and the others show native advantages to resist different image processing attacks.



HARDWARE REQUIREMENT

- Processor - Intel
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Monitor - SVGA

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SOFTWARE REQUIREMENT

- Tool - MATLAB R2012
- Operating system - Windows Xp, 7

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REFERENCES

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