Stego Image

Extracted Cover Image

Extracted Payload Image

m Most Significant Bits

(8-m) Least Significant Bits

No. of replace bits m

Embedding status data

Cover Image

Payload Image

m Most Significant Bits

(8-m) Least Significant Bits

Stego Image

Edge Image

No. of replace bits m

Embedding status data

Cover Image

Payload Image

m Most Significant Bits

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m Most Significant Bits

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No. of replace bits m

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Embedding status data

Embedding status data

Cover Image

Payload Image

Stego Image

Divide into nxn blocks

Compute BPC of each bit plane

Compute number of bits to replace ‘m’

Compute complexity conjugate of the plane

Get ‘m’ most significant bits

Get (8-‘m’) least significant bits

Compute conjugation map

Cover Image

Payload Image

Stego Image

Divide into nxn blocks

Compute BPC of each bit plane

Compute number of bits to replace ‘m’

Divide into nxn blocks

Compute complexity conjugate of the plane

Compute BPC of each bit plane

If BPCS < threshold

Get (8-‘m’) most significant bits

Get ‘m’ least significant bits

Embed

Compute conjugation map

Cover Image

Payload Image

n Most Significant Bits

(8-n) Least Significant Bits

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Extracted Cover Image

Extracted Payload Image

n Most Significant Bits

(8-n) Least Significant Bits

Cover Image

Payload Image

Stego Image

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Extracted Payload Image

EMBEDDING PROCESS

Communication channel

EXTRACTION PROCESS

Stego Image