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Imperceptible Reversible Watermarking of Radiographic Images Based on Quantum Noise Masking

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Highlights

- A watermark “psychovisual mask” for radiographic images is proposed.
- A locally adapted histogram shifting based lossless watermarking is given.
- Watermark is masked into the image quantum noise to preserve the diagnosis value.
- Theoretical distortion/capacity performances into image anatomical parts are given.
- Theoretical results are experimentally verified.

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