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Parametric Reversible Data Hiding in Encrypted Images using Adaptive Bit-level Data Embedding and Checkerboard based Prediction

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**Highlights**

- We propose an adaptive bit-level data embedding (ABDE) method to embed secret data into the image by bit replacement
- Using ABDE, we further propose a parametric reversible data embedding method in encrypted images (PRDHEI).
- PRDHEI is able to embed as large as 4.5 bpp of the secret data and obtain an average PSNR larger than 30 dB in the recovered images.

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