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Adaptive Deblocking of Images With DCT Compression

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Abstract - The Discrete Cosine Transform (DCT) is widely used in image and video coding schemes . By applying DCT to image blocks and quantizing the DCT coefficients, efficient image compression can be achieved . However, the quantization of the DCT coefficients introduces errors in the decompressed images, which appears as blocky art crafts . The blocky artcrafts can be converted into "Gaussian Type" noise and removed via image denoising techniques. In this paper, an adaptive deblocking scheme has been removed to remove the blocky art crafts from images. Experimental results show that, with this adaptive approach , blocky art crafts have been successfully removed with improved Peak Signal -to -Noise Ratio (PSNR) values over the previous approach .