

Peer Review

Review of: "Adaptive Iterative Compression for High-Resolution Files: An Approach Focused on Preserving Visual Quality in Cinematic Workflows"

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Remarks for the paper:

1. When you propose the method to be used with TIFF images, it is actually not clear which compression you use. Please check TIFF specifications and add this information to the paper. JPEG2000 and H.265/HEVC are image and video compression algorithms respectively, while TIFF is an image container. For example, TIFF can be used with JPEG, JPEG2000, or the newer JPEG XL, or some other (assuming it is a lossy compression).

2. When comparing with JPEG2000 and H.265/HEVC, which coders have you actually used? For example, libx265 within FFmpeg has many parameters that can be adjusted: one of them is to adjust towards better PSNR or SSIM measurement (and not necessarily for better subjective results). Exact parameters of each of the compression algorithms should be given.

3. It would be useful to define which images or videos you have used. Do B&W Classic, Soft Drama, and Action Film represent video sequences? Can you provide a download link for them?

4. TIFF is an image container, JPEG2000 is an image compression, while H.265/HEVC is a video compression. H.265/HEVC can achieve higher compression rates also because it uses temporal redundancy, but for video sequences. Because of that, intra-compression should be used for H.265/HEVC (or static images for tests). Please check [1] for an example comparison between H.265/HEVC, H.264/AVC, JPEG 2000, and JPEG LS.

[1] Q. Cai, L. Song, G. Li, and N. Ling, "Lossy and lossless intra coding performance evaluation: HEVC, H.264/AVC, JPEG 2000, and JPEG LS," Proceedings of The 2012 Asia Pacific Signal and Information

Processing Association Annual Summit and Conference, Hollywood, CA, USA, 2012, pp. 1-9.

5. Subjective evaluation should be better explained. Have you used the ITU-R BT. 500-15 standard [2]?

Also, how did you calculate acceptance (i.e., Table 2) from the collected subjective scores?

[2] ITU-R BT.500-14. BT.500 : Methodologies for the subjective assessment of the quality of television images. International Telecommunications Union, 2023.

6. Newer compression algorithms might also be used, such as H.266/VVC and AV-1.

Declarations

Potential competing interests: No potential competing interests to declare.