

Kodim07.png

Apply K-means then DWT

Original Image <u>Kodim07.png</u>	After K-means(size) K=200	Final image size after applying DWT on jpg	MSE	PSNR	CR	SSIM
566322B (566KB)	385277 (385KB)	50700 (50KB)	52.459228515625	30.932584614582307	11.170059171597632	0.909545758408294

Apply PCA then DWT

Original Image Kodim07.png	After PCA N_components = 150	Final image size after applying DWT on jpg	MSE	PSNR	CR	SSIM
566322B (566KB)	502808 (502KB)	53046 (53KB)	73.26814778645833	29.4816514812361	10.676054744938355	0.9201658856486951

Apply PCA then K-means then DWT

Original Image Kodim23.png	After PCA N_components = 150	After K-means(size) K=200	Final image size after applying DWT on jpg	MSE	PSNR	CR	SSIM
566322B (566KB)	502808 (502KB)	440427 bytes (440KB)	53083 (53 KB)	78.05594719780817	29.20674362671353	10.668613303694215	0.9166995658858609