Kodim22.png

Apply K-means then DWT

Original Image *Kodim22.png*	After K-means(size) K=200	Final image size after applying DWT	MSE	PSNR	CR	SSIM
701970 (702KB)	510842 bytes (511KB)	56747 Bytes (56.7KB)	111.70708719889323	27.649996332873904	12.370169348159374	0.812053969306393

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
701970 (702KB)	677684 Bytes (678KB)	64924Bytes (64.9KB)	320.2560306125217	23.075830443494496	10.8121803955394	0.8147016500532952

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
701970 (702KB)	677684 Bytes (678KB)	514767 bytes (515KB)	64573 Bytes (64.6KB)	319.6032850477430 4	23.0846912629987 56	10.8709 5225558 6701	0.810129 37943794 98