RGB

K=5 | Avg CR: 2.87, Avg RMSE: 15.97, Avg PSNR: 24.37 dB, Avg SSIM: 0.7660, Avg Time: 89.50 ms

Total Time: 89.50 s

K=10 | Avg CR: 2.81, Avg RMSE: 10.67, Avg PSNR: 27.97 dB, Avg SSIM: 0.8466, Avg Time: 168.28 ms

Total Time: 168.28 s

K=15 | Avg CR: 2.81, Avg RMSE: 8.68, Avg PSNR: 29.82 dB, Avg SSIM: 0.8799, Avg Time: 215.83 ms

Total Time: 215.83 s

K=20 | Avg CR: 2.83, Avg RMSE: 7.58, Avg PSNR: 31.03 dB, Avg SSIM: 0.8992, Avg Time: 262.06 ms

Total Time: 262.06 s

K=25 | Avg CR: 2.84, Avg RMSE: 6.86, Avg PSNR: 31.93 dB, Avg SSIM: 0.9117, Avg Time: 364.62 ms

Total Time: 364.62 s

K=30 | Avg CR: 2.85, Avg RMSE: 6.35, Avg PSNR: 32.63 dB, Avg SSIM: 0.9208, Avg Time: 429.49 ms

Total Time: 429.49 s

A graph of a performance graph

AI-generated content may be incorrect.

Grayscale

K=5 | Avg CR: 3.04, Avg RMSE: 11.57, Avg PSNR: 27.02 dB, Avg SSIM: 0.8129, Avg Time: 55.24 ms

Total Time: 55.24 s

K=10 | Avg CR: 3.06, Avg RMSE: 5.96, Avg PSNR: 32.75 dB, Avg SSIM: 0.9095, Avg Time: 93.87 ms

Total Time: 93.87 s

K=15 | Avg CR: 3.14, Avg RMSE: 4.06, Avg PSNR: 36.09 dB, Avg SSIM: 0.9465, Avg Time: 128.01 ms

Total Time: 128.01 s

K=20 | Avg CR: 3.20, Avg RMSE: 3.09, Avg PSNR: 38.44 dB, Avg SSIM: 0.9653, Avg Time: 154.65 ms

Total Time: 154.65 s

K=25 | Avg CR: 3.24, Avg RMSE: 2.51, Avg PSNR: 40.24 dB, Avg SSIM: 0.9757, Avg Time: 215.20 ms

Total Time: 215.20 s

K=30 | Avg CR: 3.27, Avg RMSE: 2.12, Avg PSNR: 41.68 dB, Avg SSIM: 0.9820, Avg Time: 249.91 ms

Total Time: 249.91 s

A graph of a performance graph

AI-generated content may be incorrect.