
Denoising parameter optimization: Real dataset

NO. TYPE OF DENOISING

1	Original noisy, zero denoising level
2	Denoised by BM3D, moderate denoising level
3	Denoised by BM3D, heavy denoising level

Denoising parameter optimization: Synthetic dataset

NO. TYPE OF NOISE/DENOISER

1	Additive Gaussian noise (PSNR=28.1 dB), denoised by BM3D
2	Additive Gaussian noise (PSNR=28.1 dB), denoised by DDID
3	Spatially correlated noise ¹ (PSNR=28.1 dB), denoised by BM3D
4	Spatially correlated noise (PSNR=28.1 dB), denoised by DDID
5	AWGN (PSNR=28.1 dB) + Lossy compression ² , denoised by BM3D
6	AWGN (PSNR=28.1 dB) + Lossy compression, denoised by DDID

General distortion

NO. TYPE OF DISTORTION

1	Additive Gaussian noise, standard deviation = 5 , (PSNR=34.1dB),
2	Additive Gaussian noise, standard deviation = 10, (PSNR=28.1 dB),
3	Spatially correlated noise ¹ , standard deviation = 10 , (PSNR=34.1dB)
4	Spatially correlated noise ¹ , standard deviation = 20 , (PSNR=28.1 dB)
5	Spatially correlated noise + Lossy compression, standard deviation = 7, QF = 50
6	Spatially correlated noise + Lossy compression, standard deviation = 5, QF = 75
7	Impulse noise, probability = 0.5%
8	Gaussian Blur, 5x5 with sigma = 1

¹ Filtered AWGN using Gaussian filter.

² JPEG compression with QF = 75.