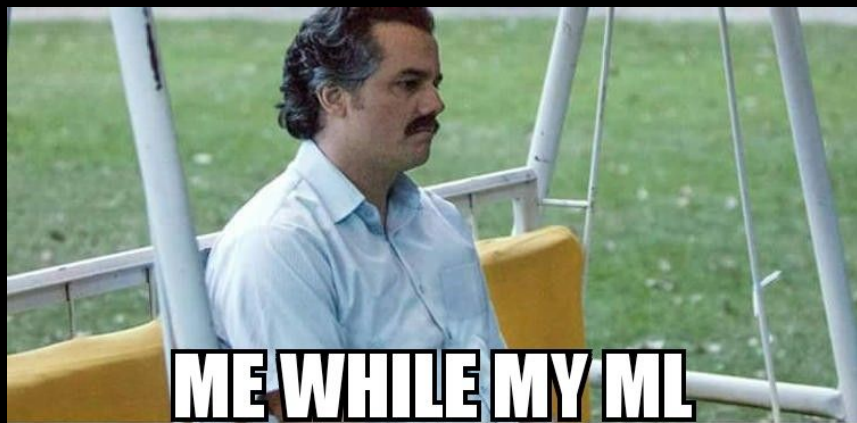


reVision

Digital Image Processing Monsoon 2020



**ME WHILE MY ML
MODEL IS TRAINING**

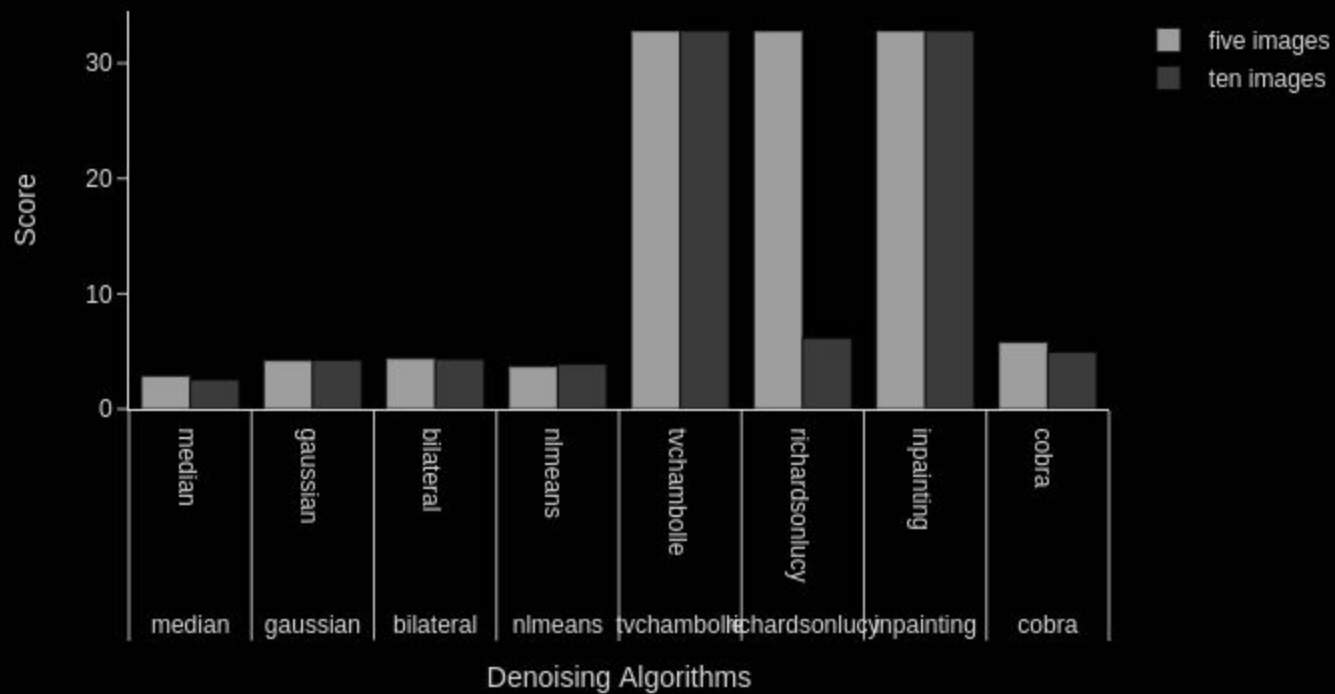


Results on the Test Image Dataset
After Training the COBRA Model

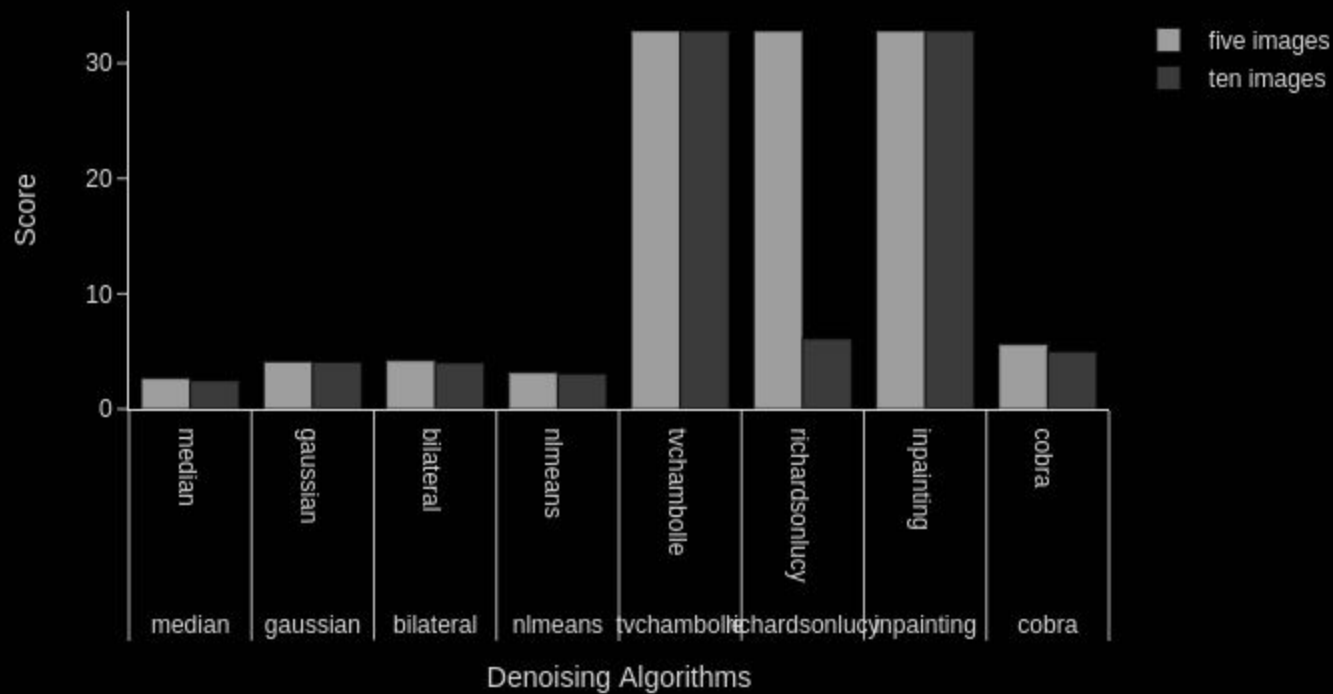
Euclidean Distance

Five vs Ten Image Training Dataset, and Patch = 1

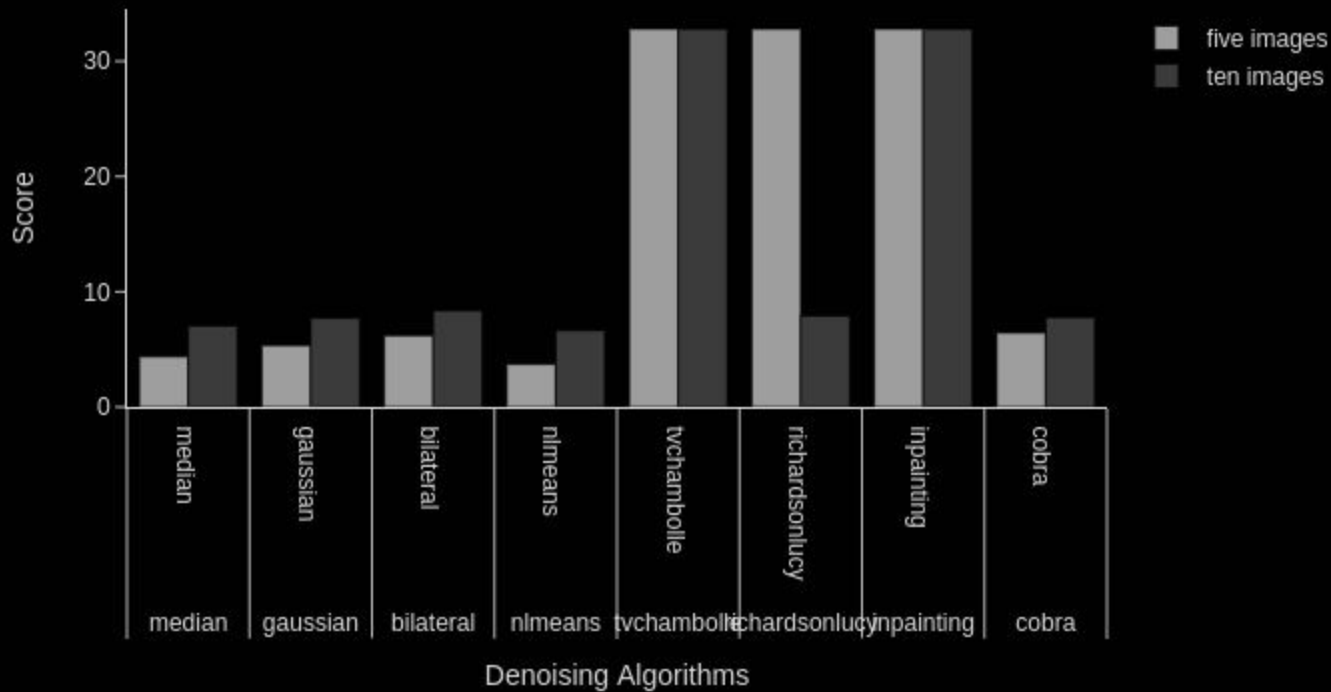
Comparison of Euclidean Distances of Different Denosing Algorithms on Salt Noise



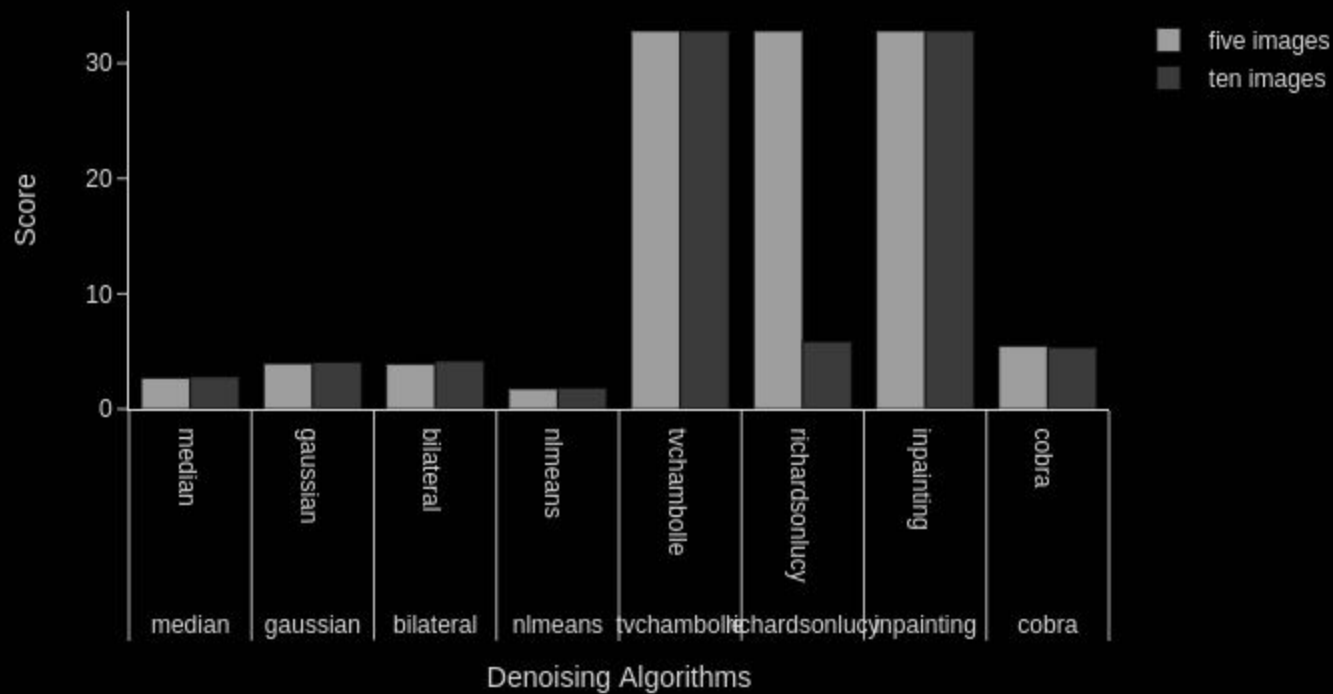
Comparison of Euclidean Distances of Different Denosing Algorithms on Pepper Noise



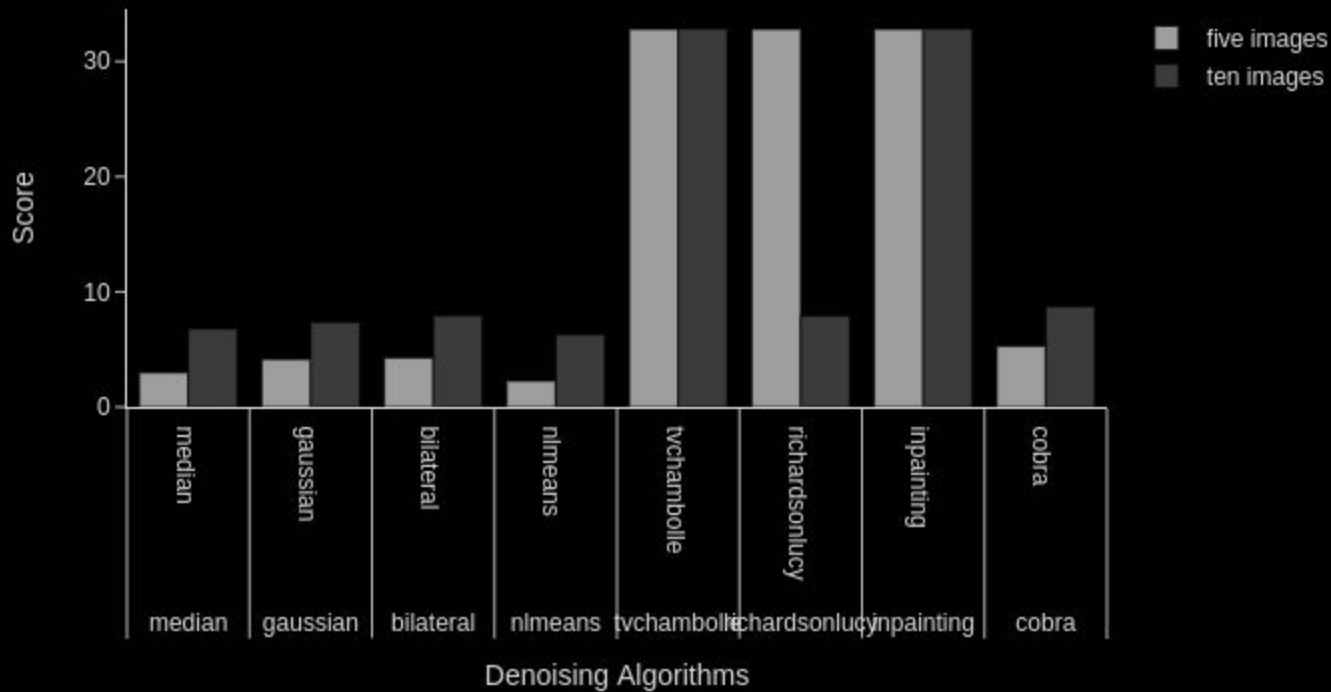
Comparison of Euclidean Distances of Different Denosing Algorithms on Gaussian Noise



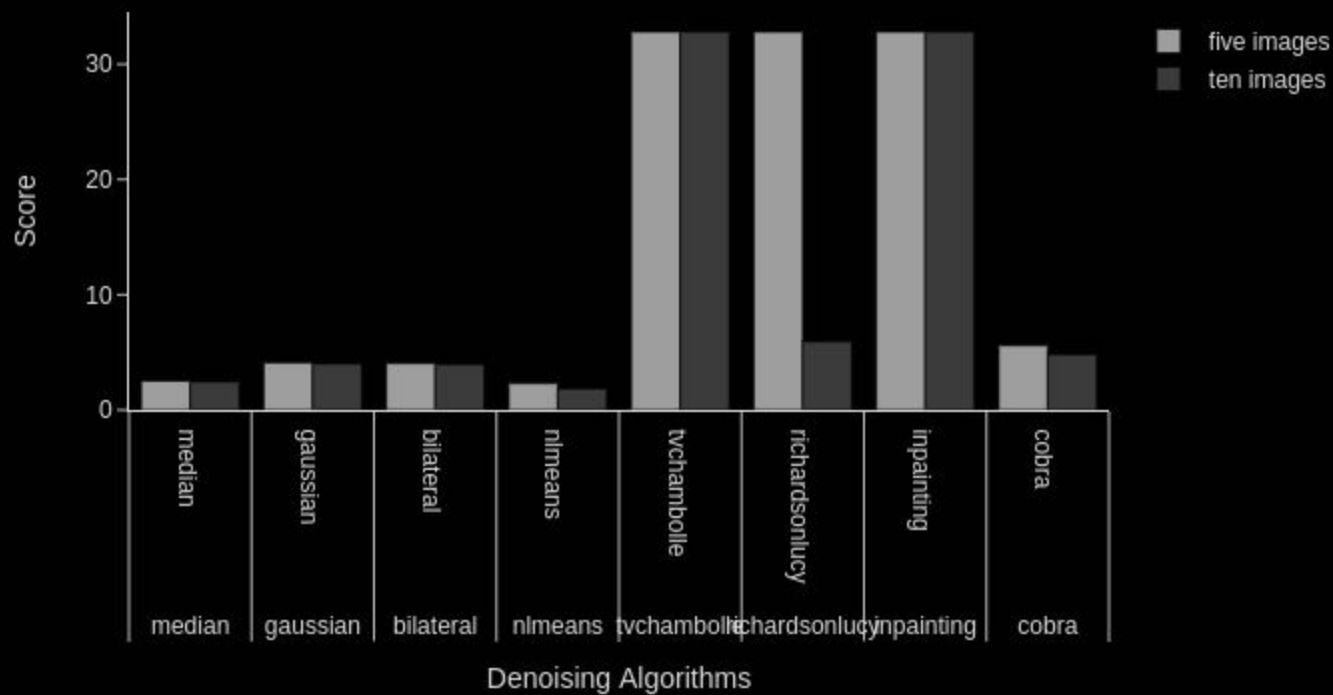
Comparison of Euclidean Distances of Different Denosing Algorithms on Speckle Noise



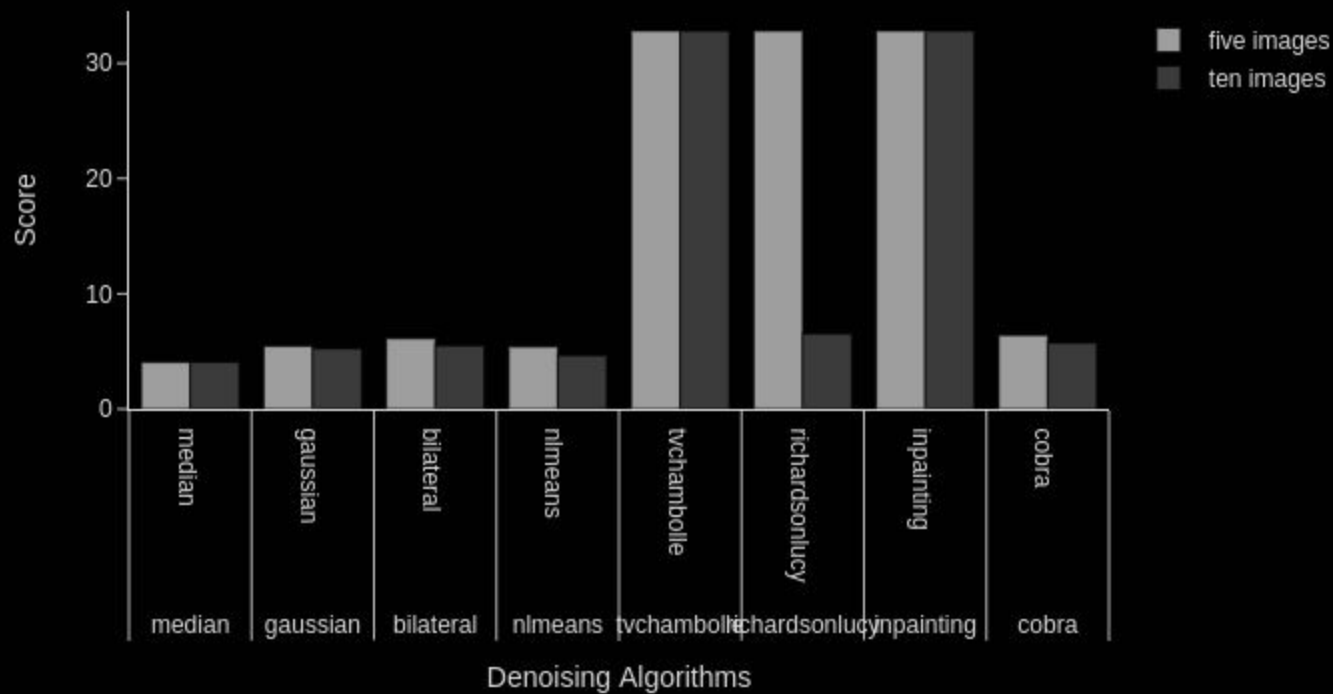
Comparison of Euclidean Distances of Different Denosing Algorithms on Poisson Noise



Comparison of Euclidean Distances of Different Denosing Algorithms on Patch Supressi



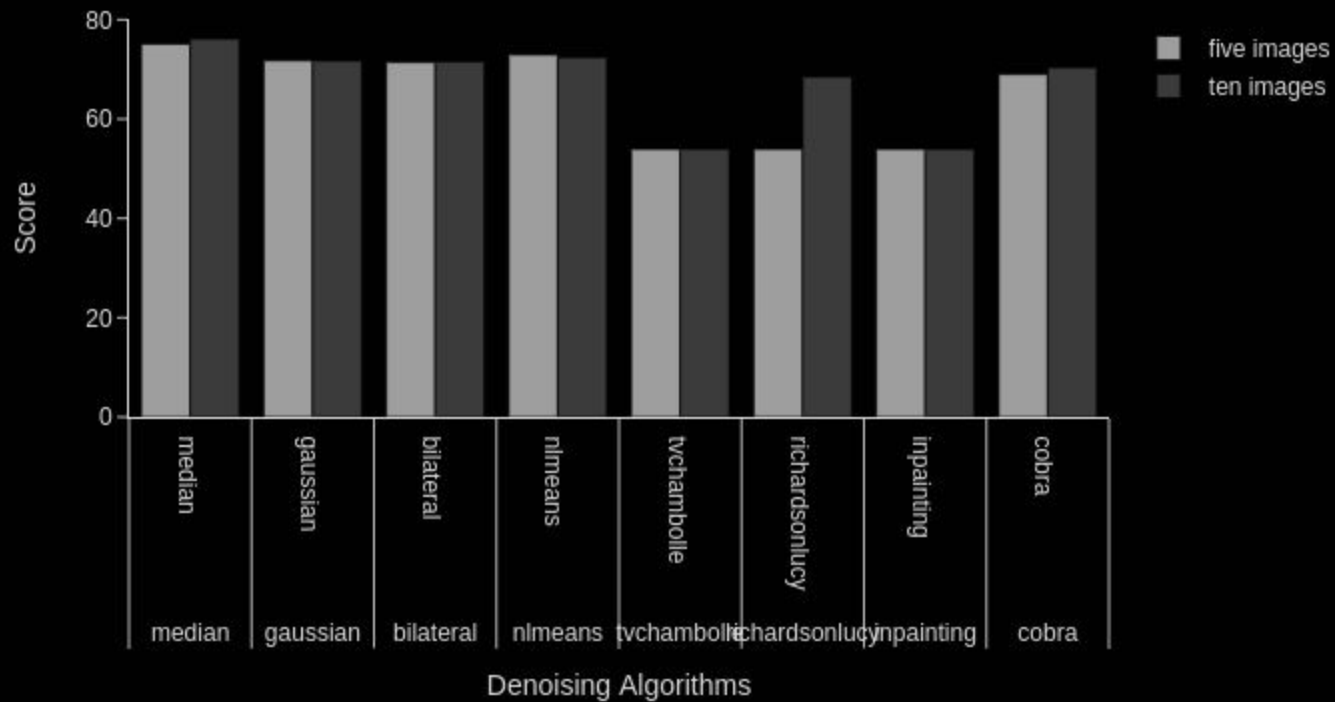
Comparison of Euclidean Distances of Different Denosing Algorithms on Multi-Noise



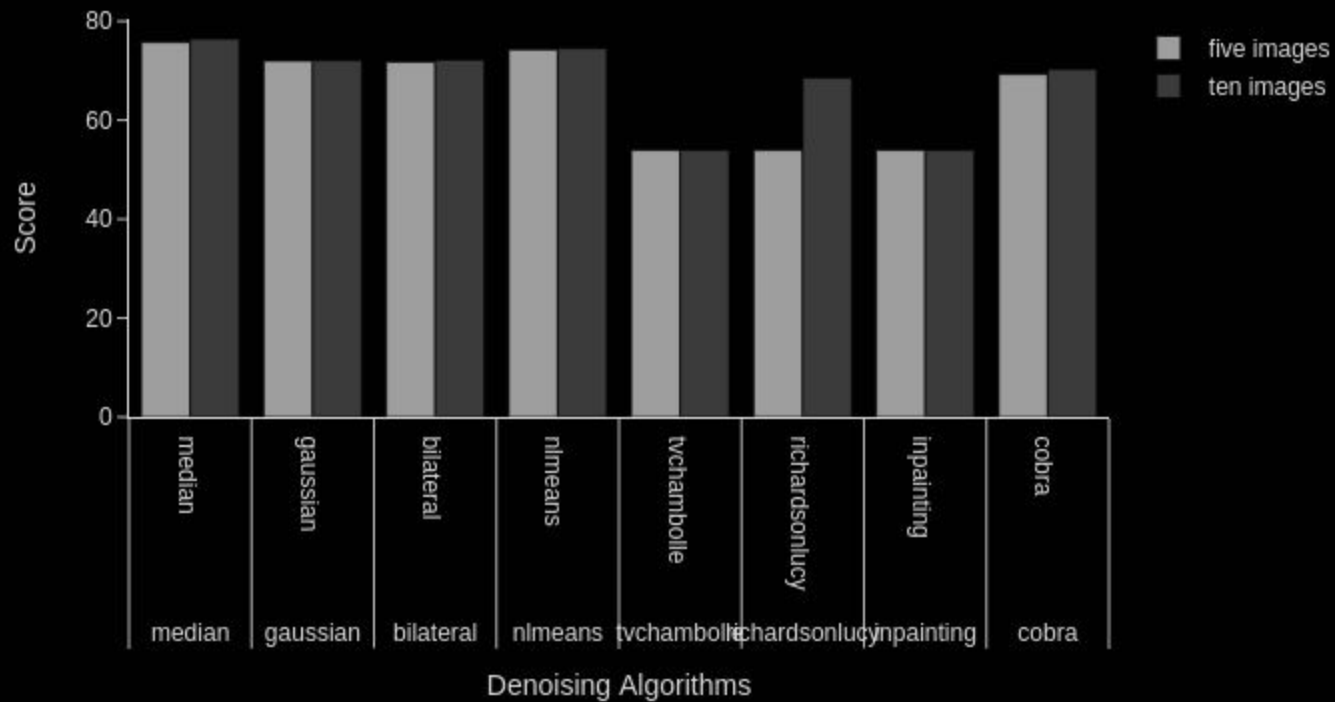
Peak Signal-to-Noise Ratio

Five vs Ten Image Training Dataset, and Patch = 1

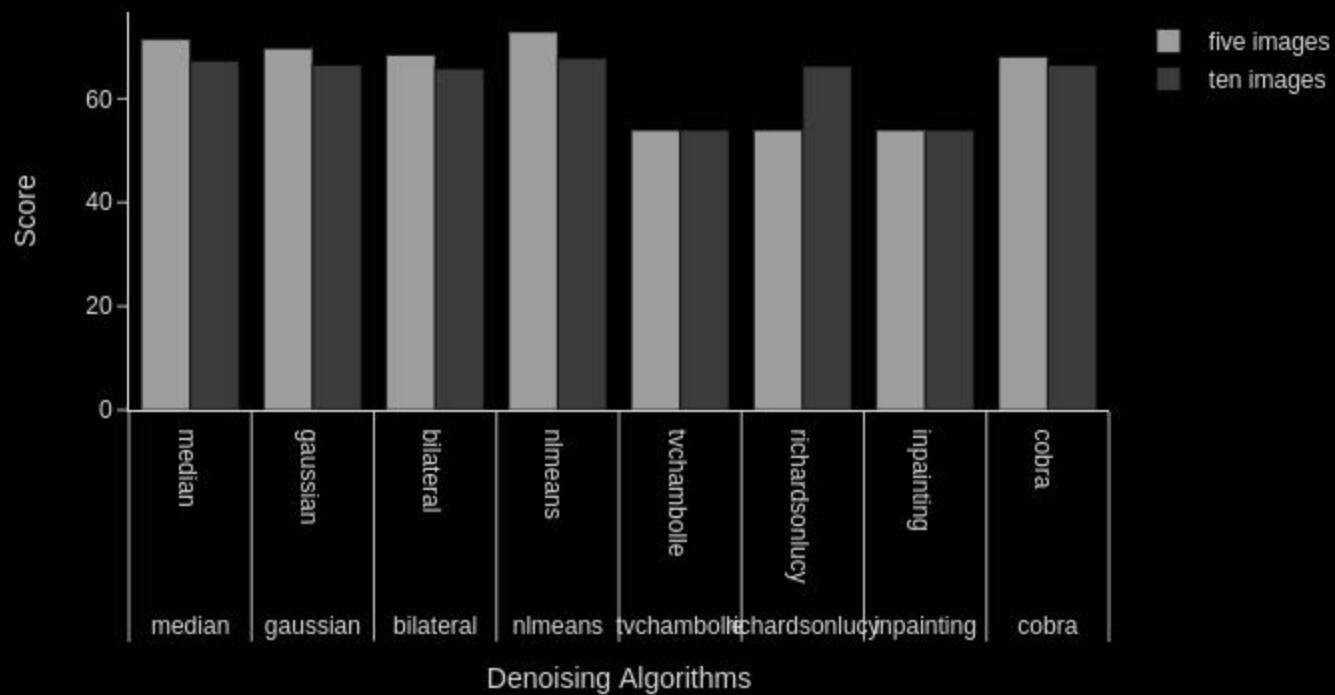
Comparison of PSNR of Different Denoising Algorithms on Salt Noise



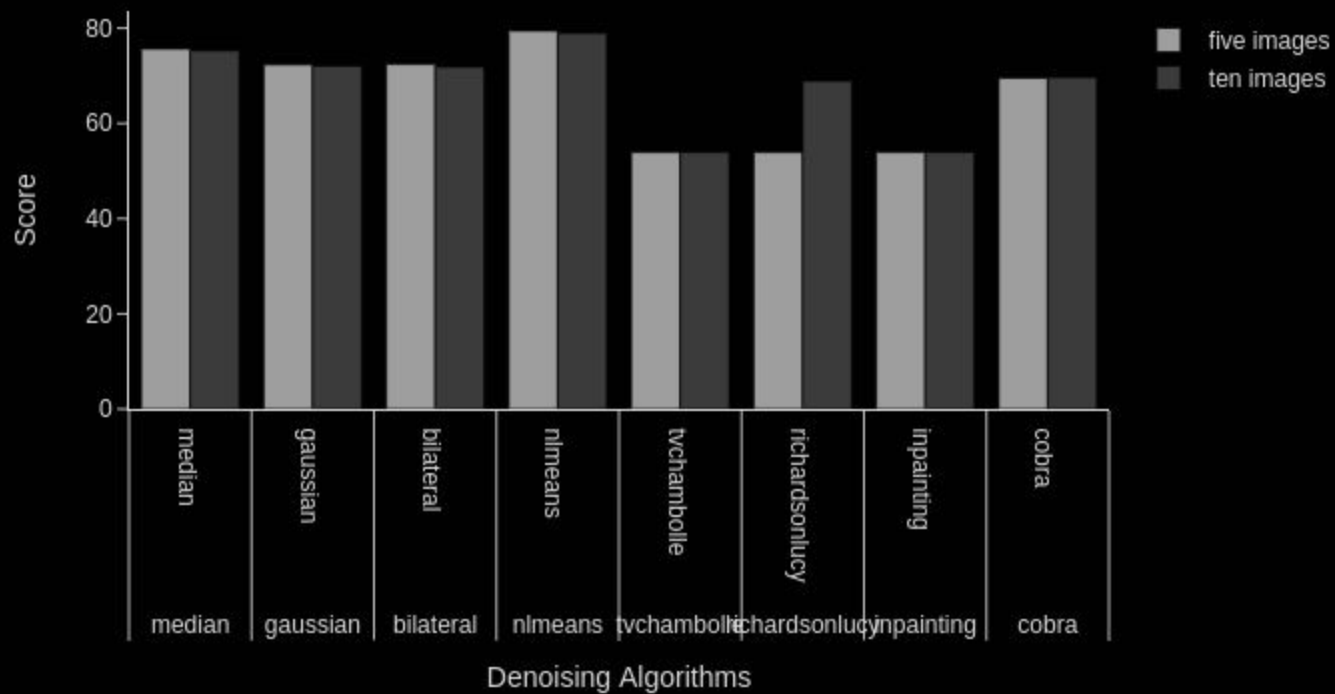
Comparison of PSNR of Different Denoising Algorithms on Pepper Noise



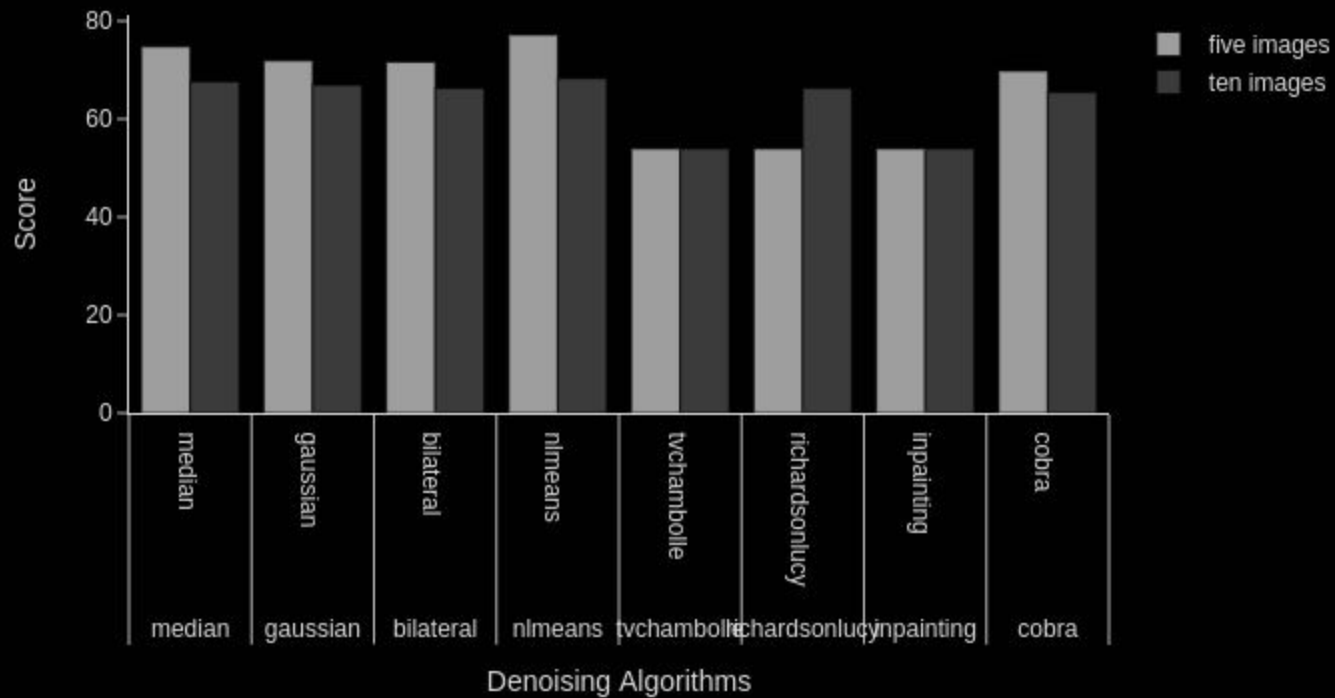
Comparison of PSNR of Different Denoising Algorithms on Gaussian Noise



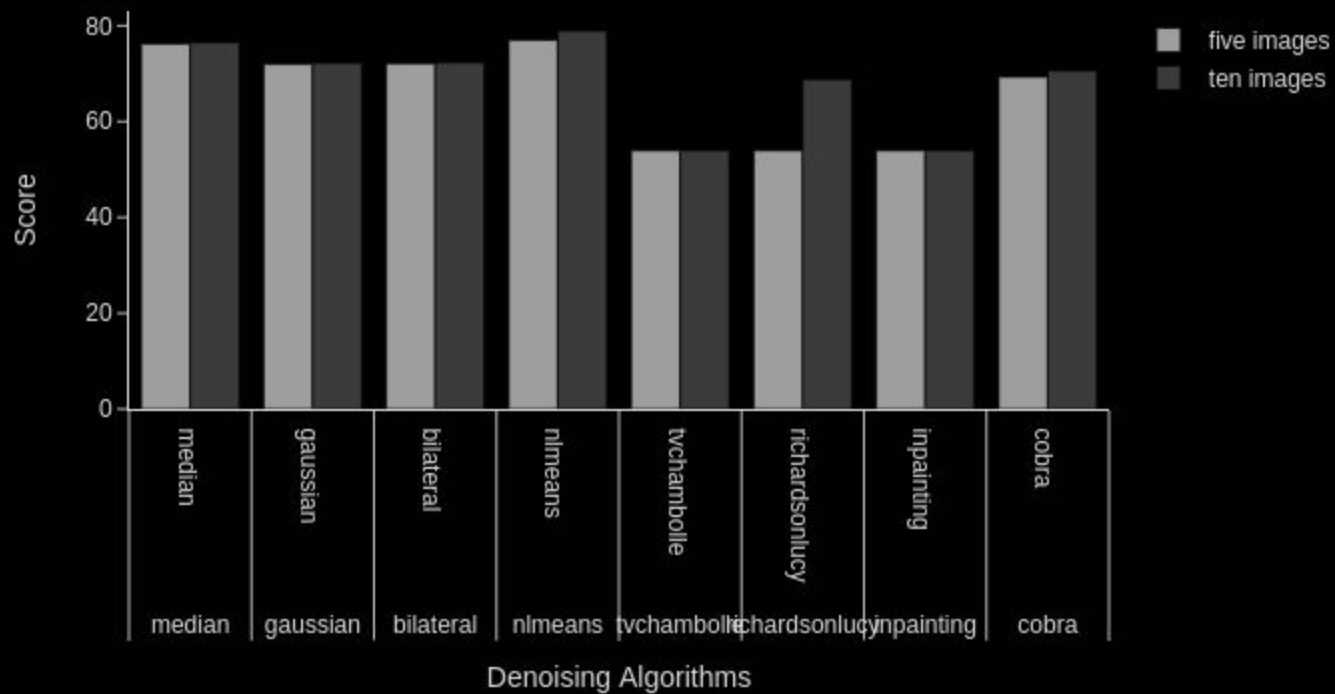
Comparison of PSNR of Different Denoising Algorithms on Speckle Noise



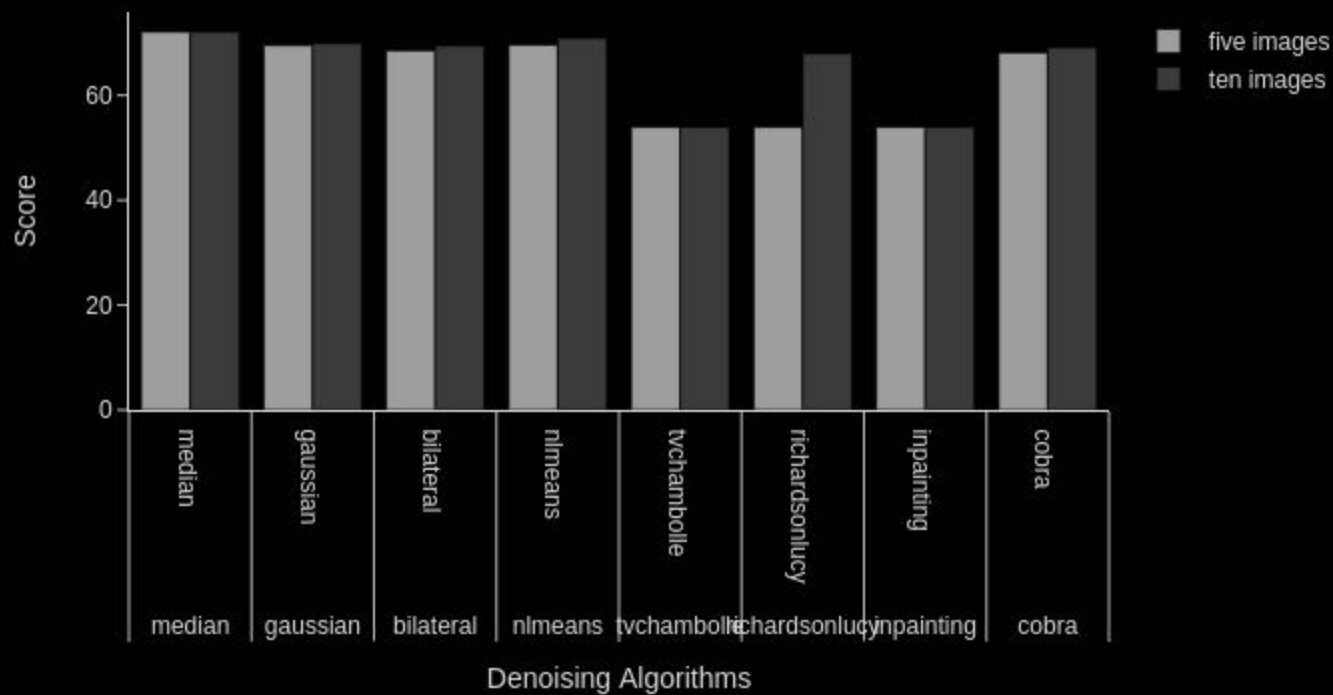
Comparison of PSNR of Different Denoising Algorithms on Poisson Noise



Comparison of PSNR of Different Denoising Algorithms on Patch Supression



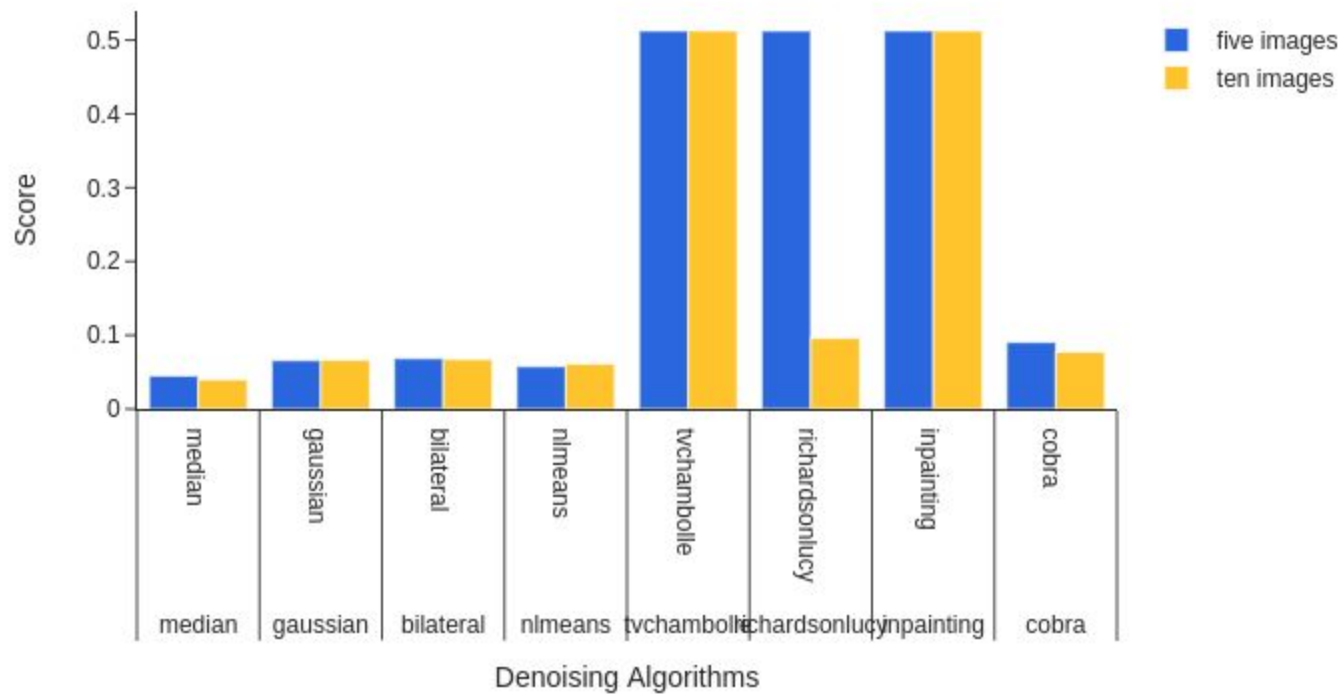
Comparison of PSNR of Different Denoising Algorithms on Multi-Noise



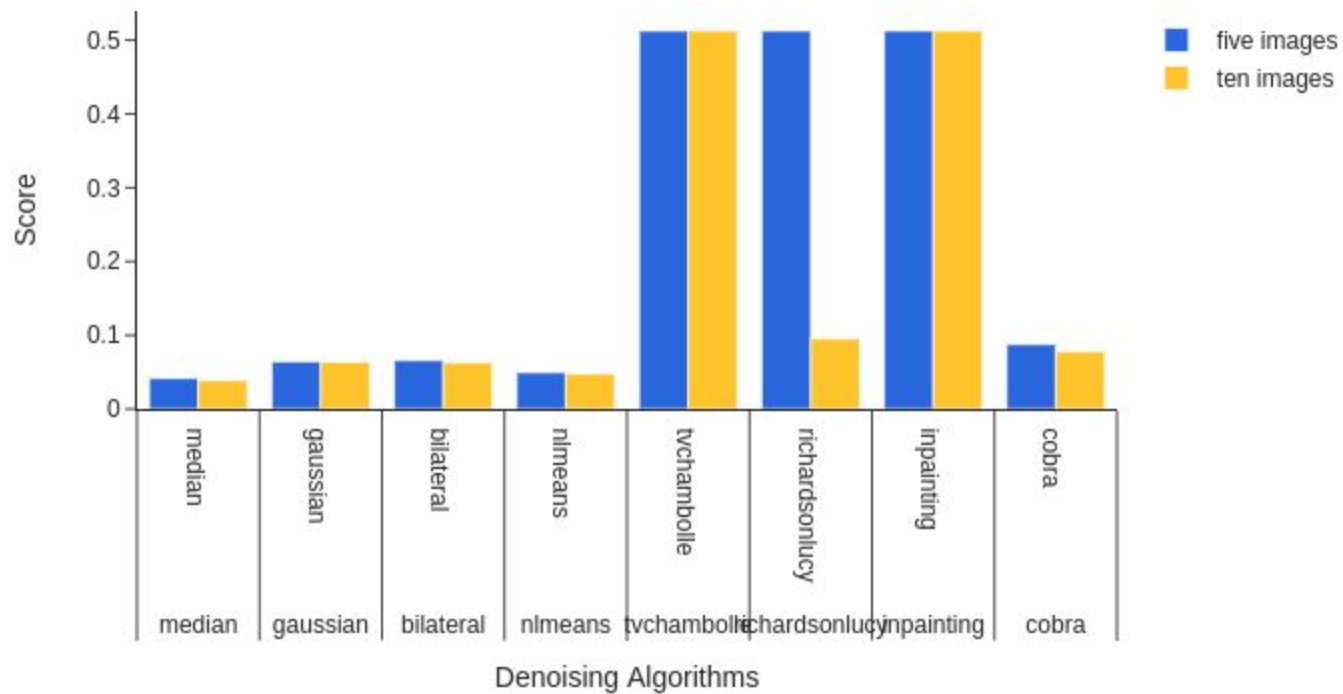
Root Mean Square Error

Five vs Ten Image Training Dataset, and Patch = 1

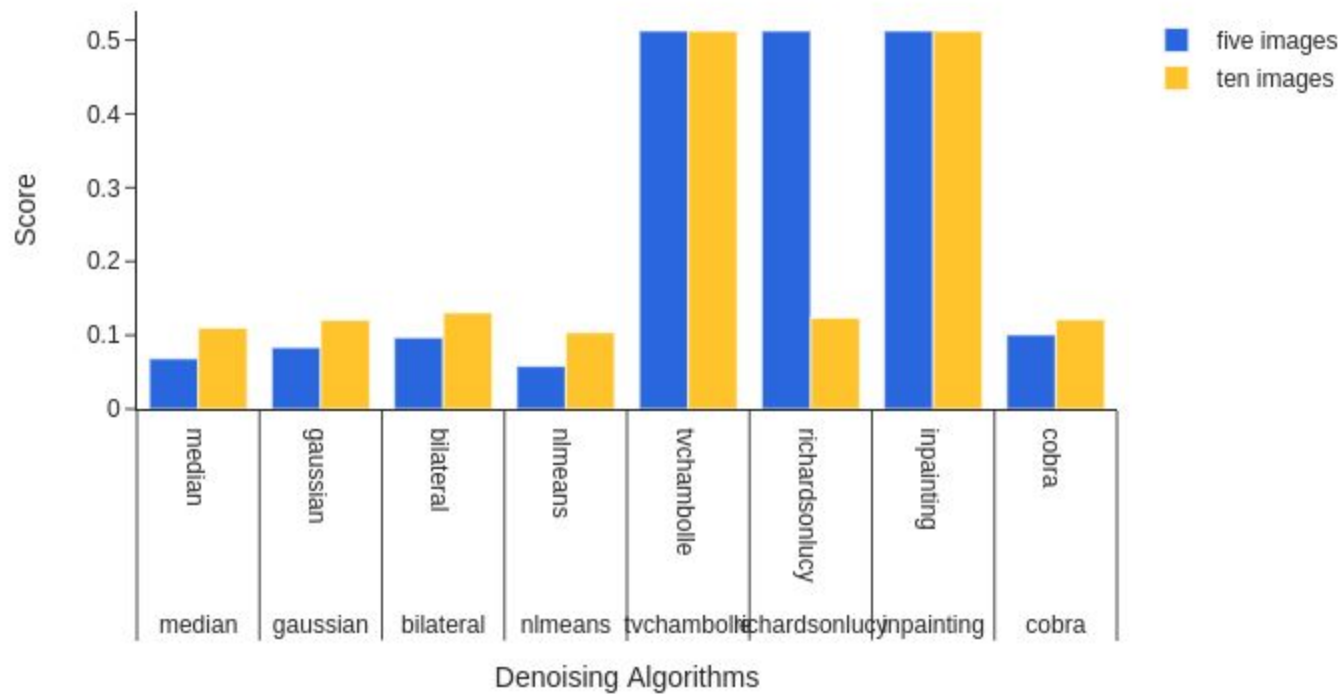
Comparison of RSME of Different Denoising Algorithms on Salt Noise



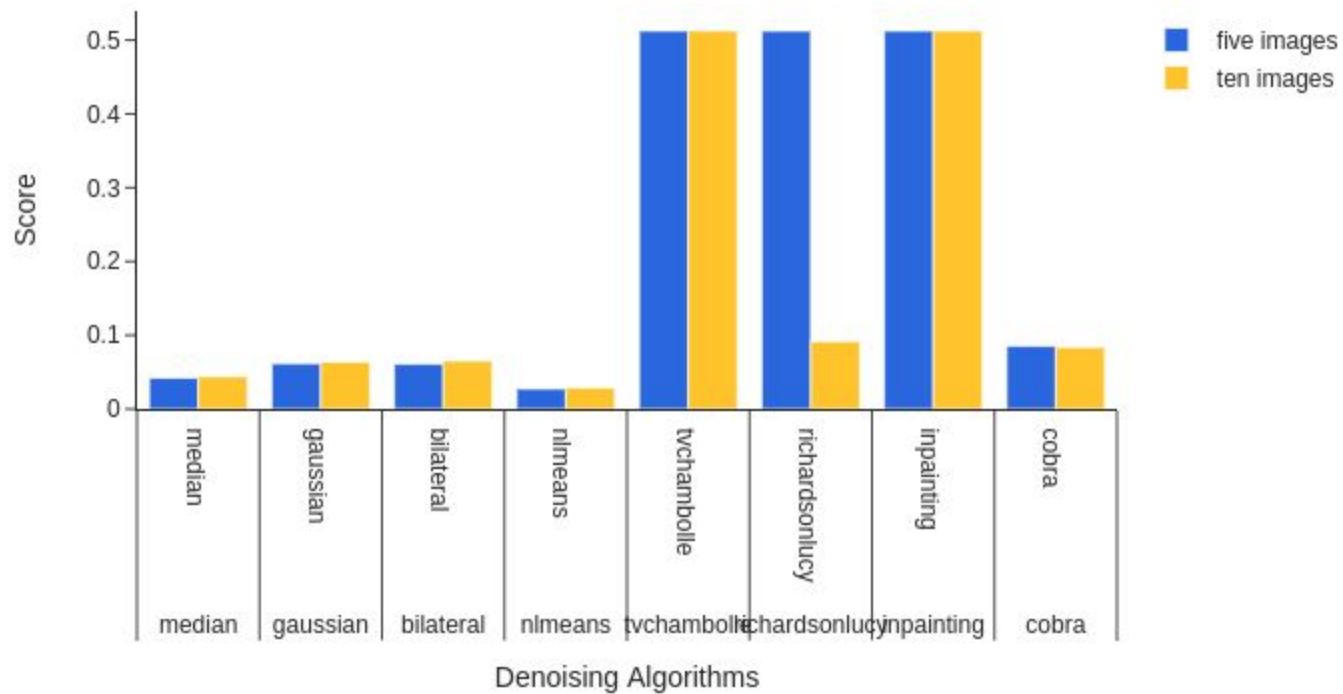
Comparison of RSME of Different Denoising Algorithms on Pepper Noise



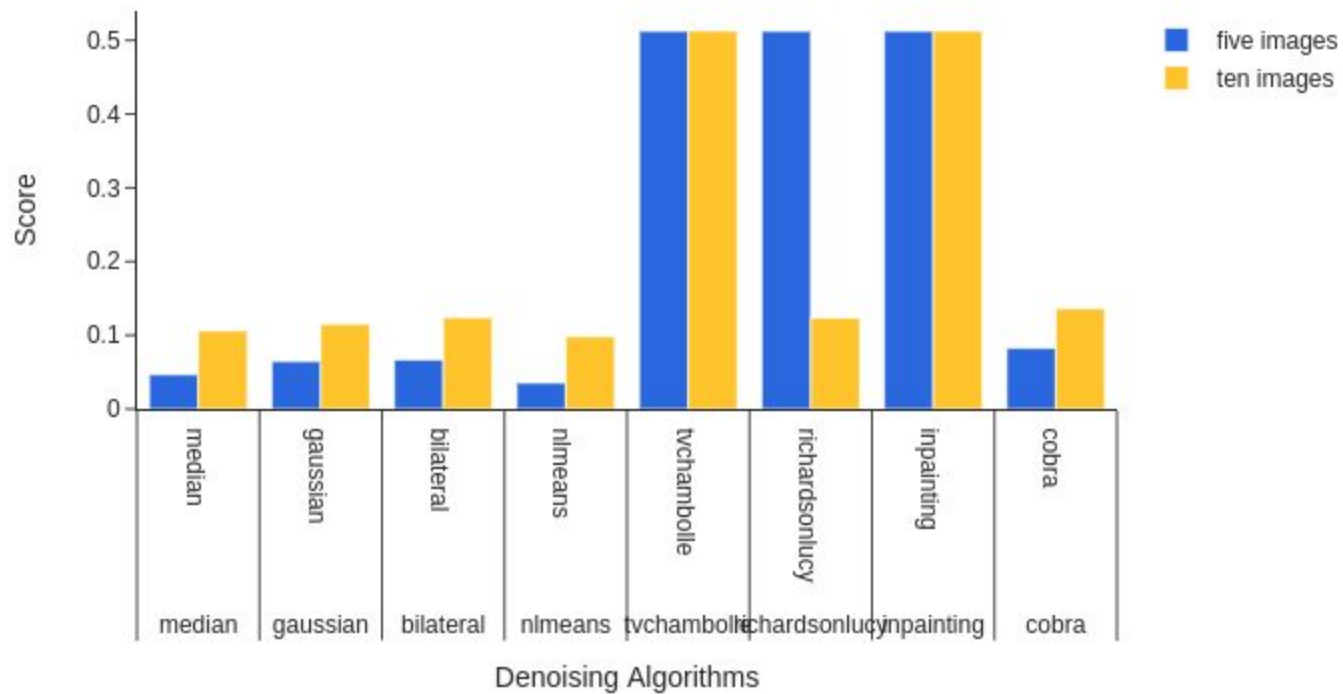
Comparison of RSME of Different Denoising Algorithms on Gaussian Noise



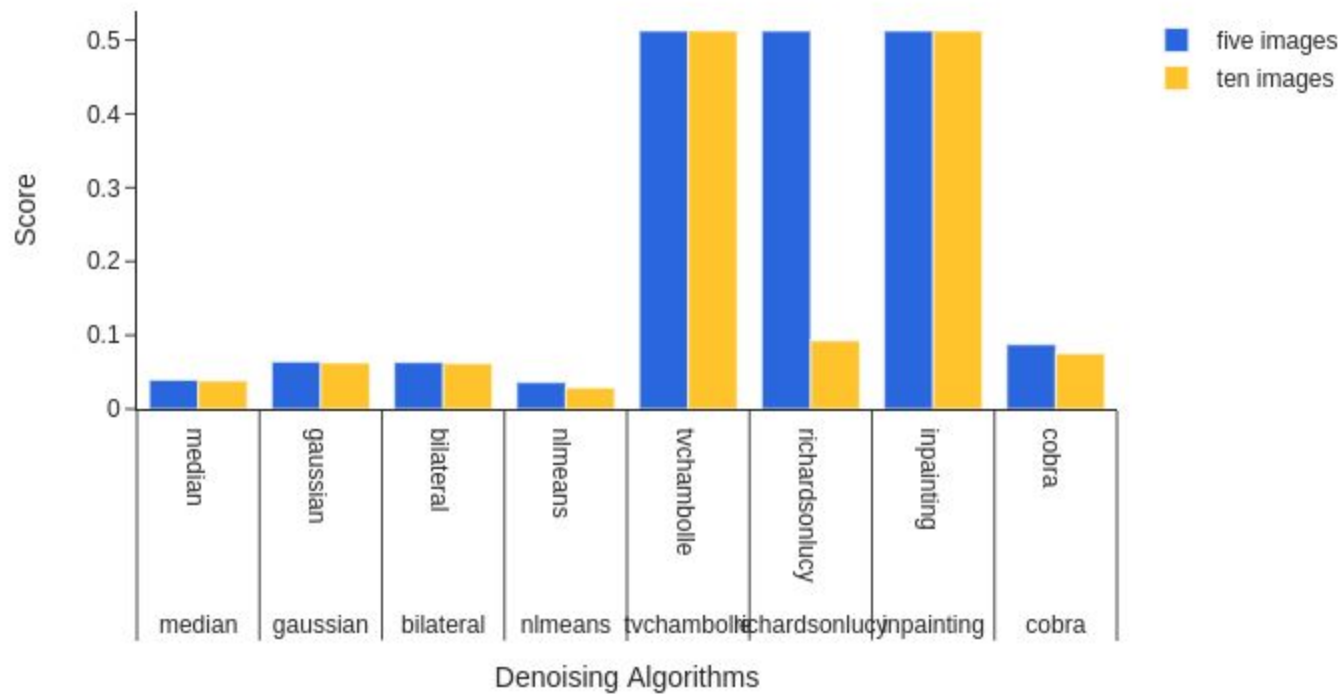
Comparison of RSME of Different Denoising Algorithms on Speckle Noise



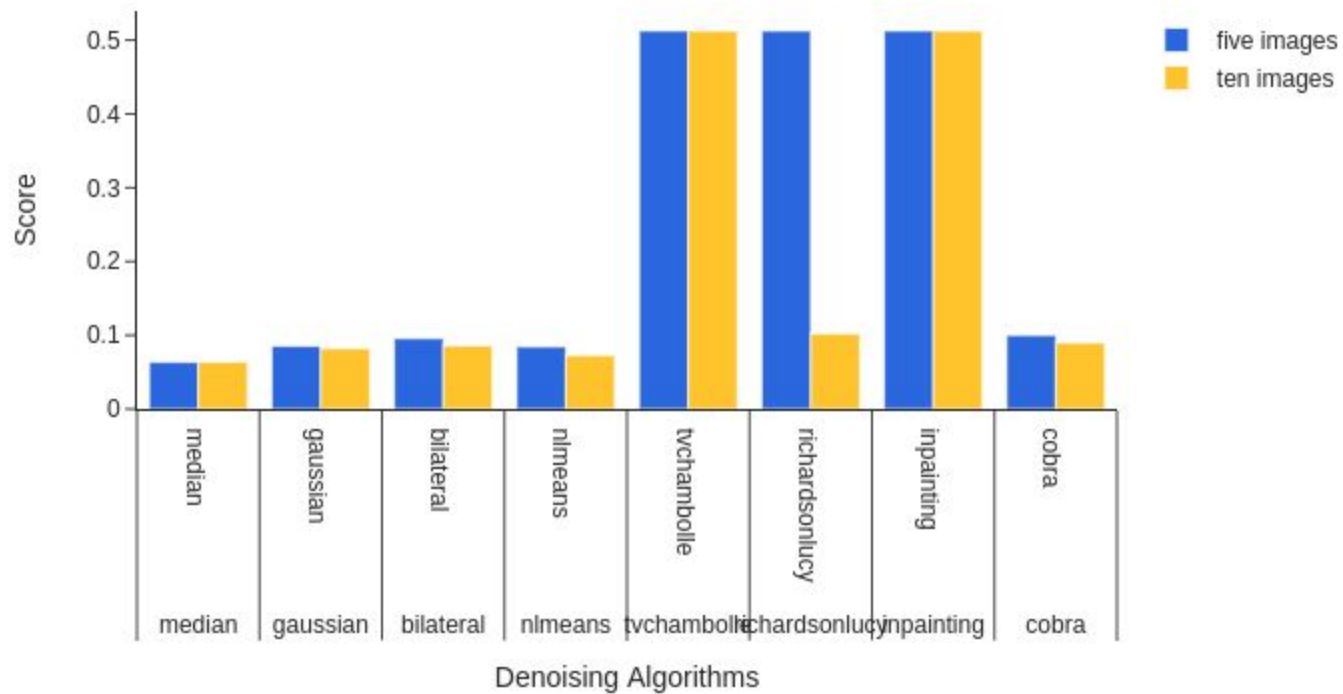
Comparison of RSME of Different Denoising Algorithms on Poisson Noise



Comparison of RSME of Different Denoising Algorithms on Patch Supression



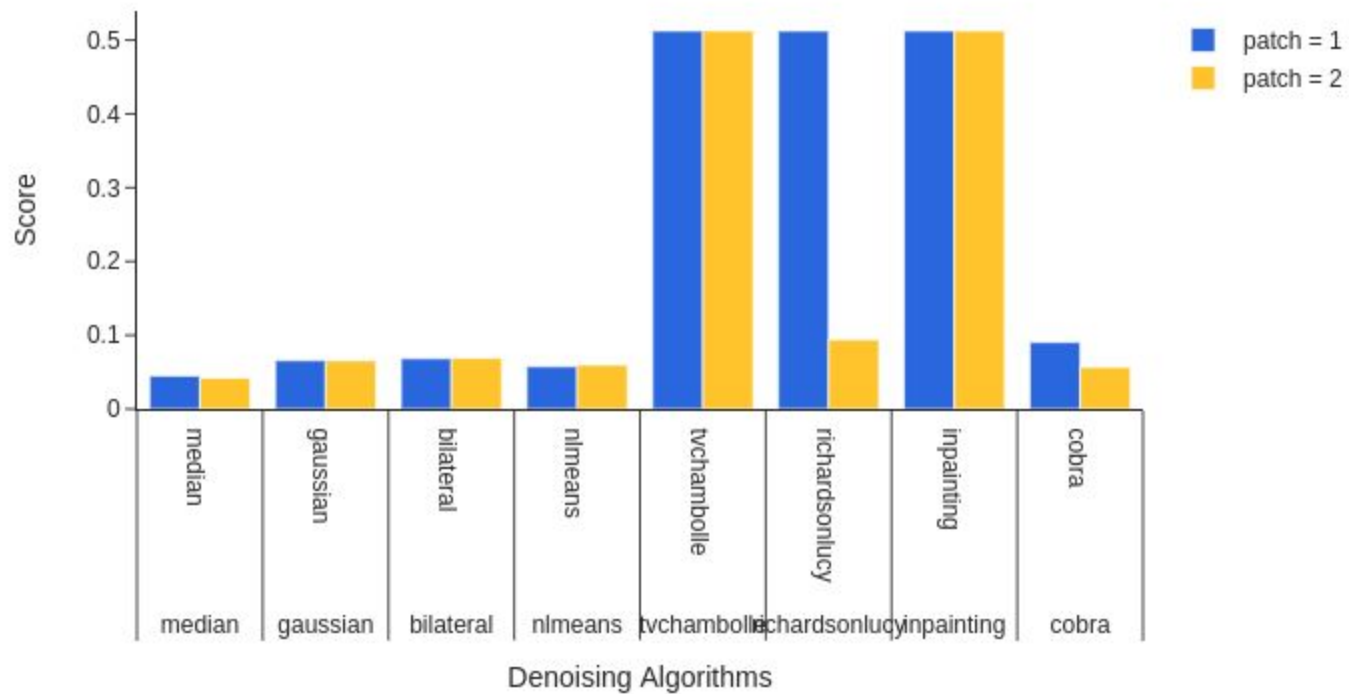
Comparison of RSME of Different Denoising Algorithms on Multi-Noise



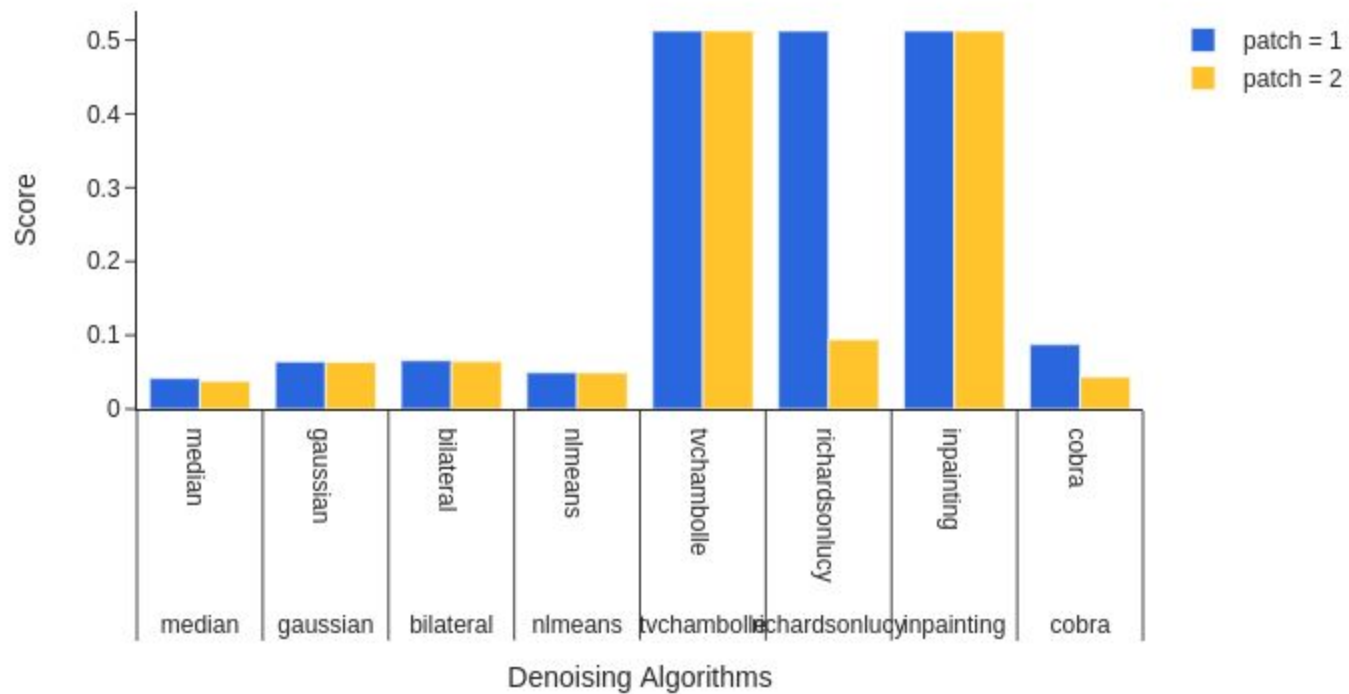
Euclidean Distance

Five Image Training Dataset, and Patch = 1 versus Patch = 2

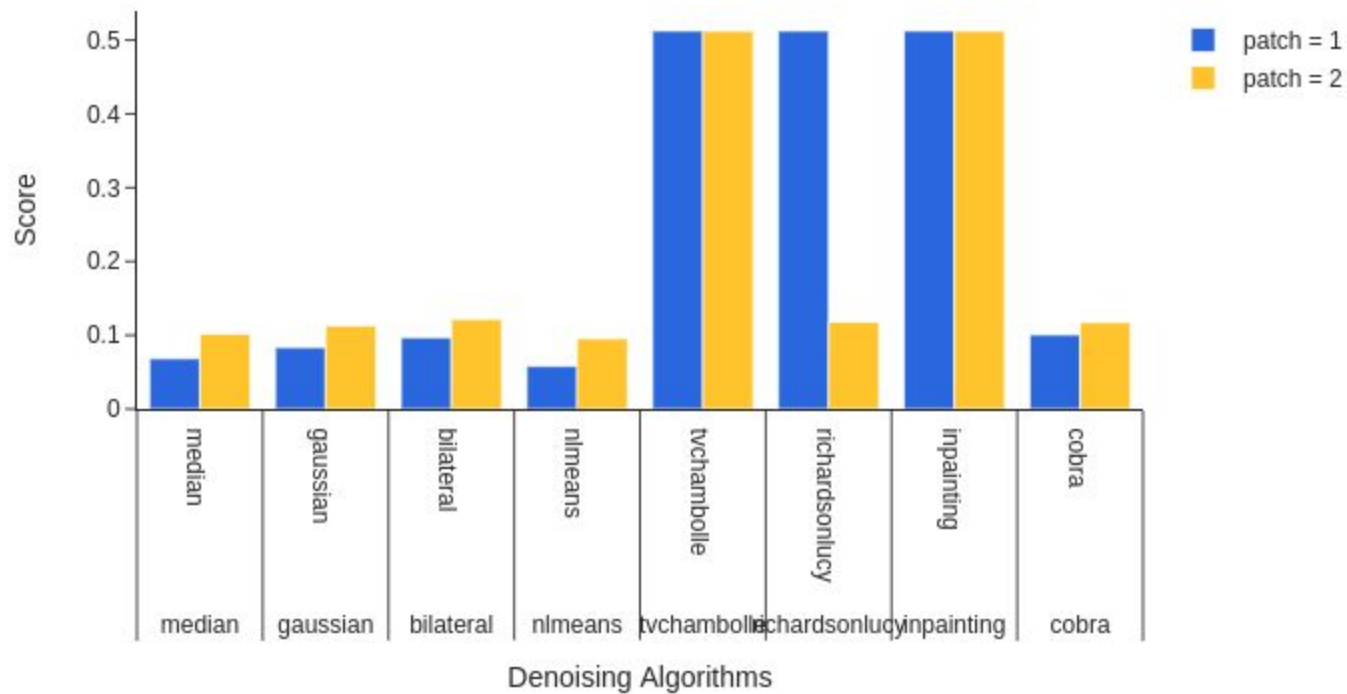
Comparison of RSME of Different Denoising Algorithms on Salt Noise



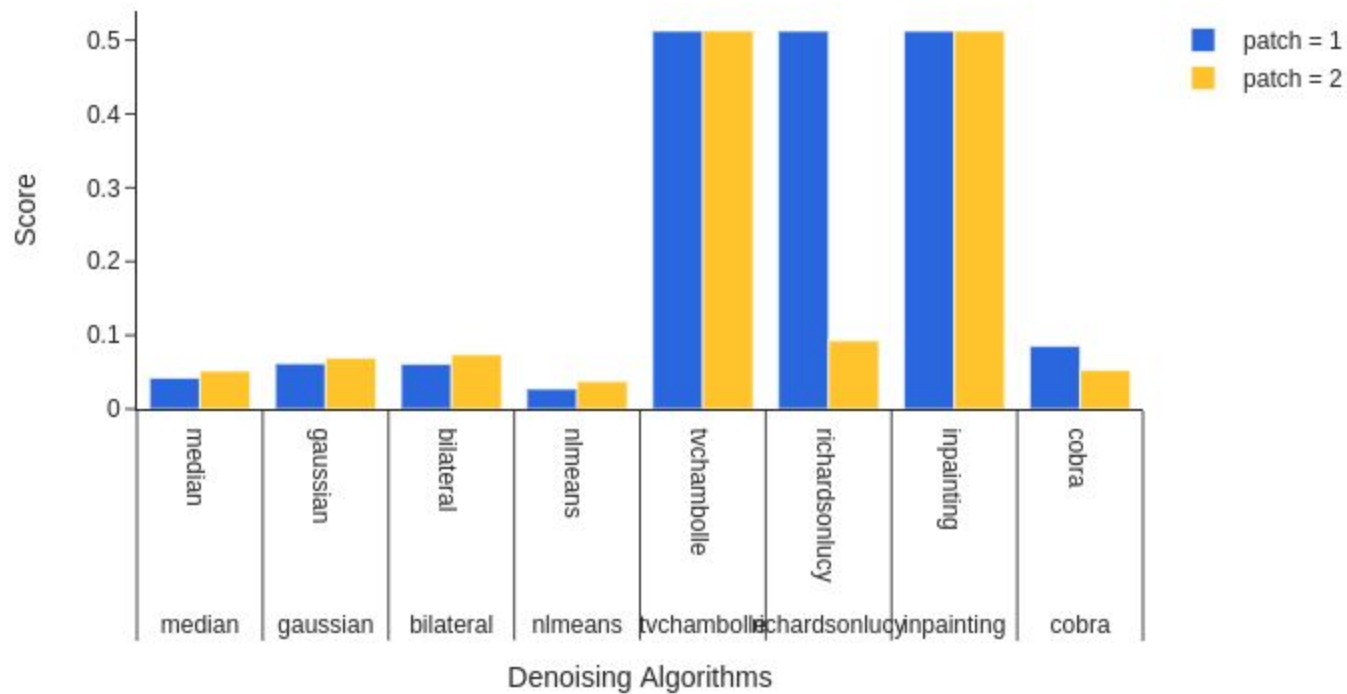
Comparison of RSME of Different Denoising Algorithms on Pepper Noise



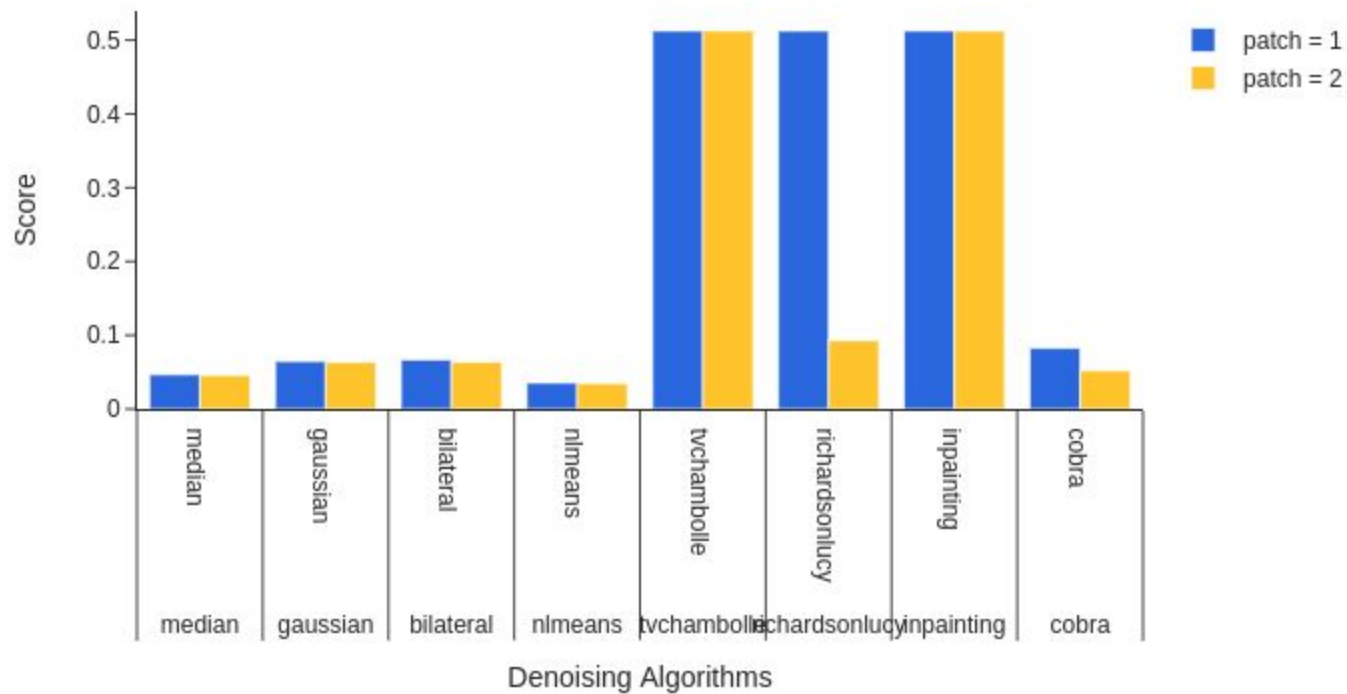
Comparison of RSME of Different Denoising Algorithms on Gaussian Noise



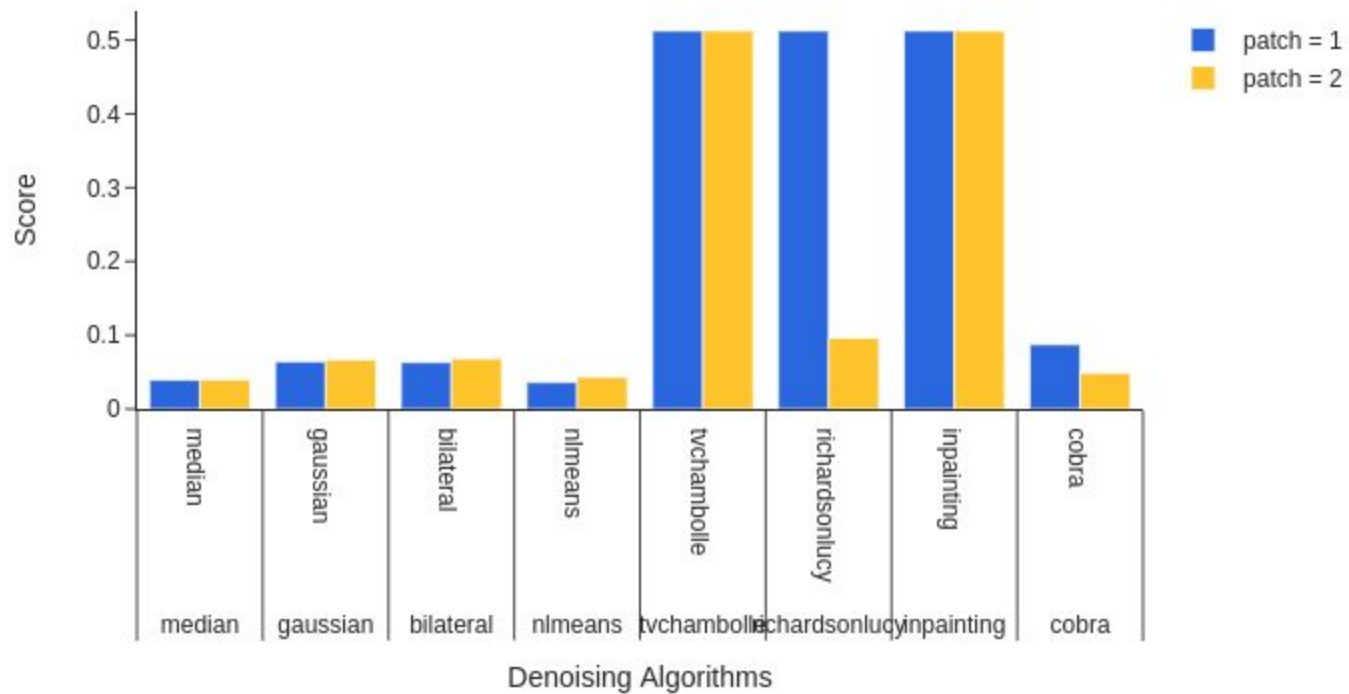
Comparison of RSME of Different Denoising Algorithms on Speckle Noise



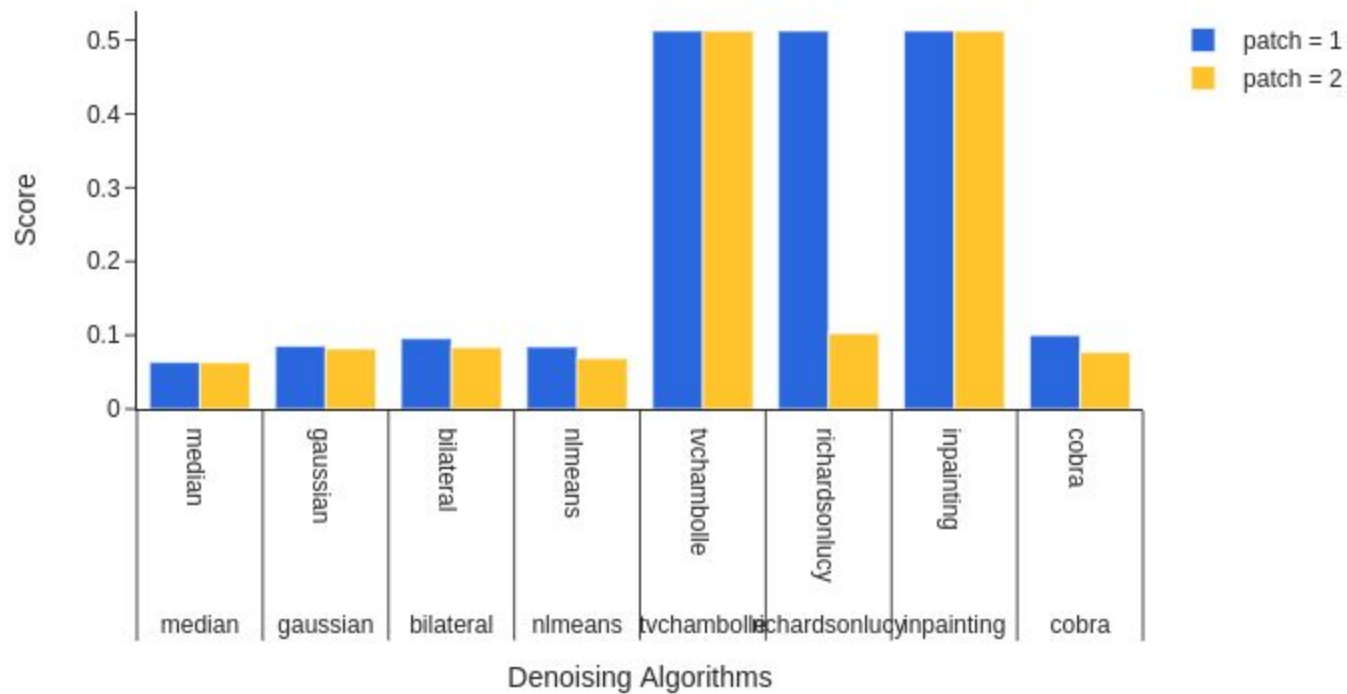
Comparison of RSME of Different Denoising Algorithms on Poisson Noise



Comparison of RSME of Different Denosing Algorithms on Patch Supression



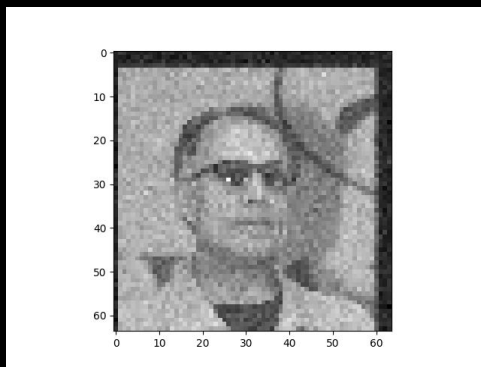
Comparison of RSME of Different Denoising Algorithms on Multi-Noise



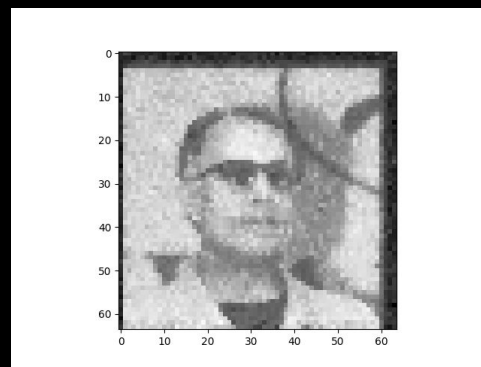
Results for different noises with our model
trained on 5 images with patch size = 2

Gaussian Noise

Before



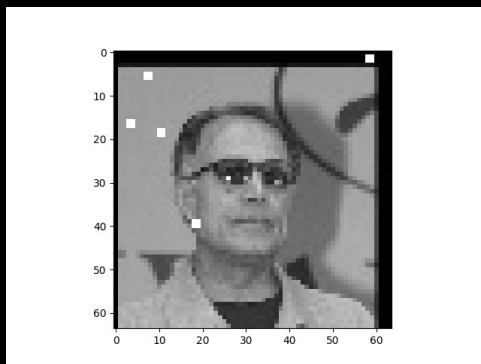
After COBRA denoising



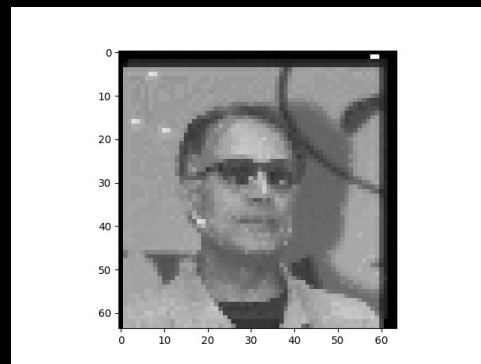
Results for different noises with our model
trained on 5 images with patch size = 2

Random Patch Suppression

Before



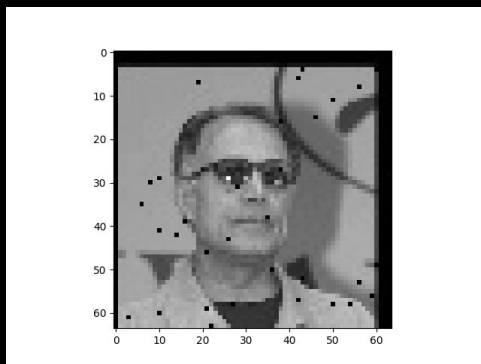
After COBRA denoising



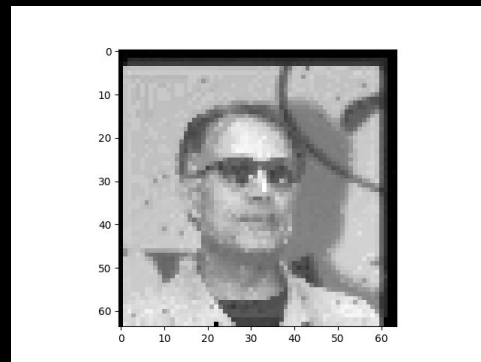
Results for different noises with our model
trained on 5 images with patch size = 2

Pepper Noise

Before



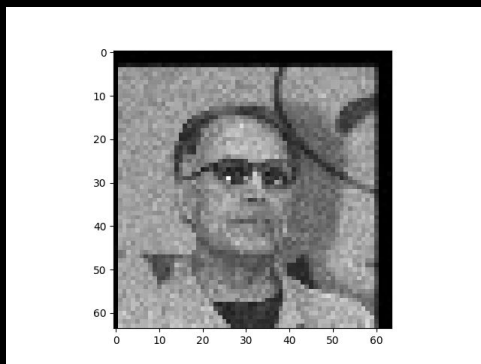
After COBRA denoising



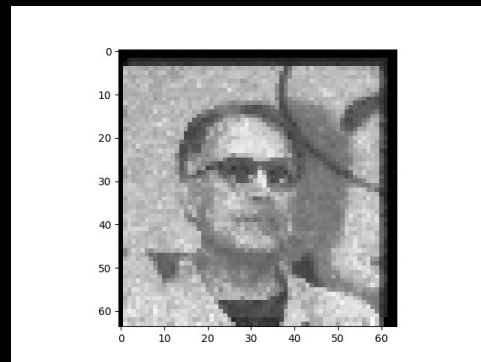
Results for different noises with our model
trained on 5 images with patch size = 2

Poisson Noise

Before



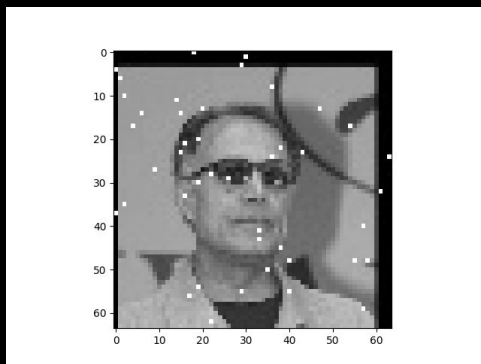
After COBRA denoising



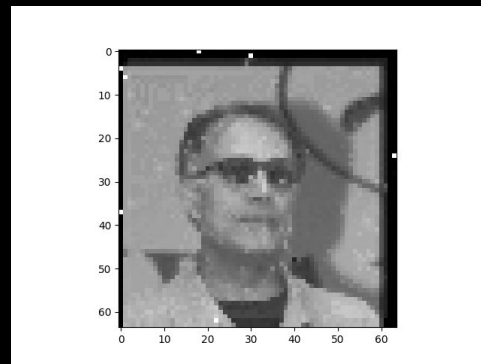
Results for different noises with our model
trained on 5 images with patch size = 2

Salt Noise

Before



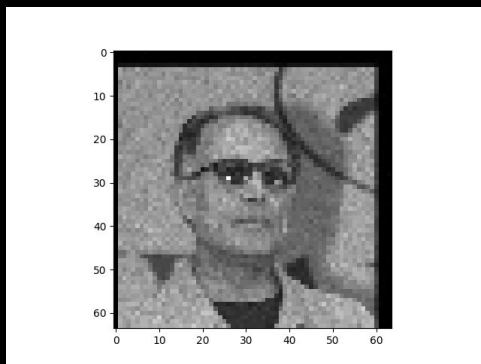
After COBRA denoising



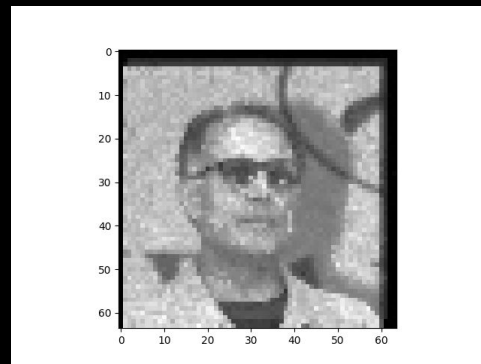
Results for different noises with our model
trained on 5 images with patch size = 2

Speckle Noise

Before



After COBRA denoising

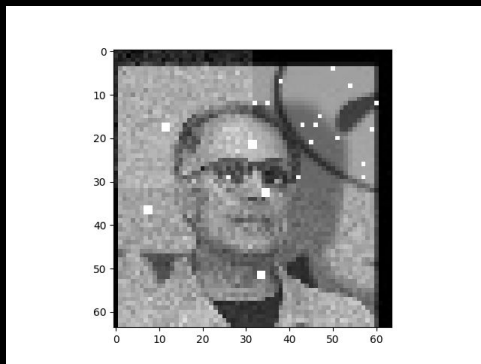


Results for different noises with our model
trained on 5 images with patch size = 2

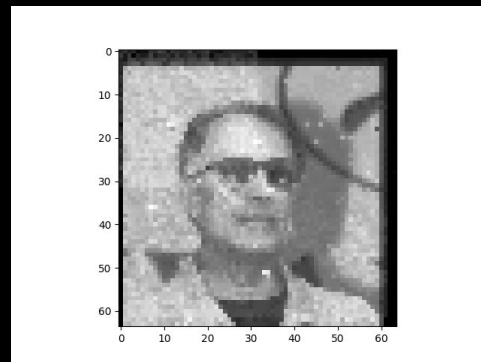
The Ultimate Test!!!

Multi-Noise

Before



After COBRA denoising



Thank you!