

Dataset:

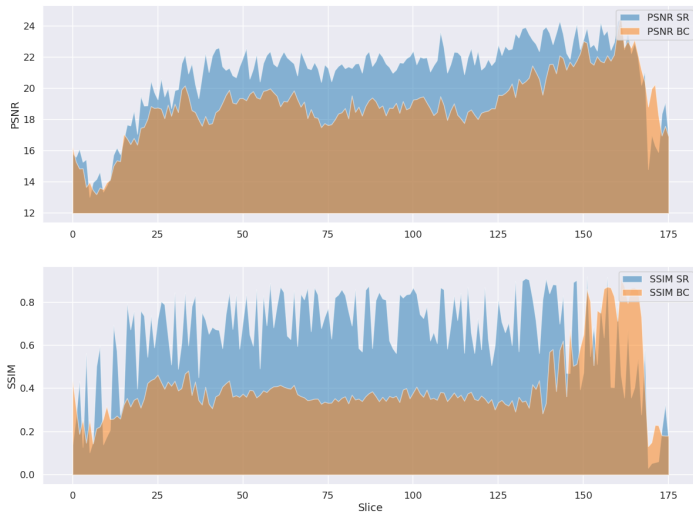
- ▶ 5 patients weighted t1 and t2 for 176 slices
- ▶ Bicubic Downsampling 2x and 4x + gauss noise
- ▶ 2LR 128x128 and 4LR 64x64

Analysis:

- ▶ model edsr x2 128x128 \rightarrow 256x256 RGB
- ▶ model wdsr x4 64x64 \rightarrow 256x256 RGB
- ▶ bicubic interpolation scale 2x and 4x
- ▶ rotation of 20 angles for super-resolution
- ▶ PSNR and SSIM score by channels
- ▶ Evaluate SR and its limits

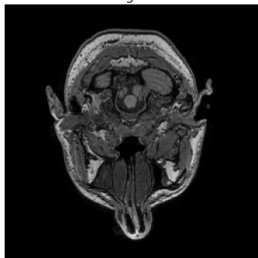
EDSR results per slice

best values of PSNR and SSIM for SR and BCI x2 angle 0

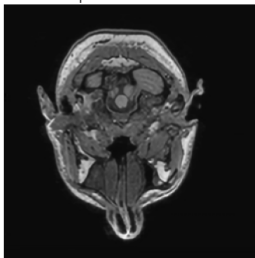


Frames References: slice 25 and slice 153

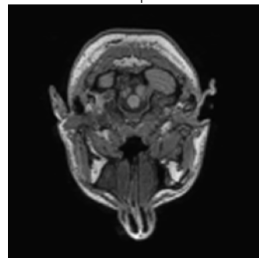
Original



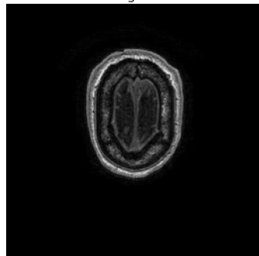
Super Resolution x2



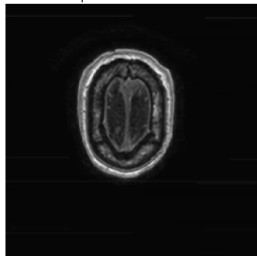
Bicubic Interpolation x2



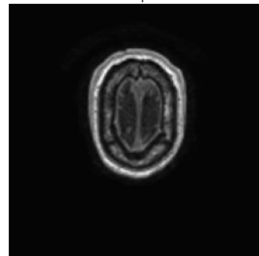
Original



Super Resolution x2

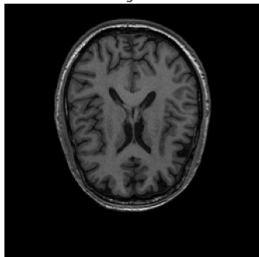


Bicubic Interpolation x2

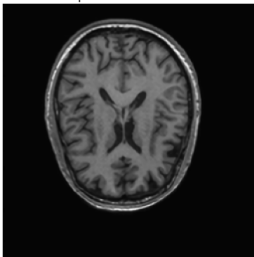


A central slice

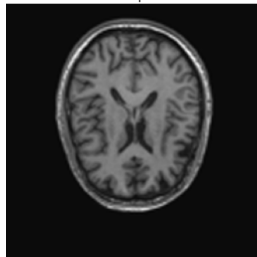
Original



Super Resolution x2



Bicubic Interpolation x2



WDSR results per slice

best values of PSNR and SSIM for SR and BCI x4 angle 0



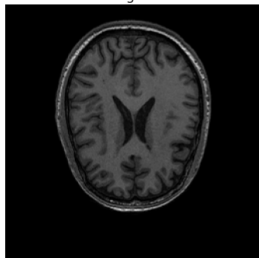
WDSR results per slice

best values of PSNR and SSIM for SR and BCI x4 angle 18

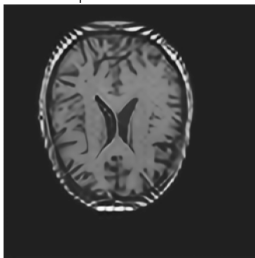


WDSR comparisons between angles : 0 and 18

Original



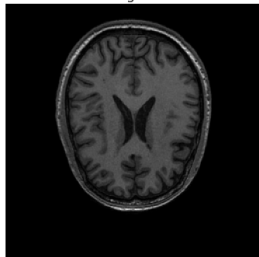
Super Resolution x4



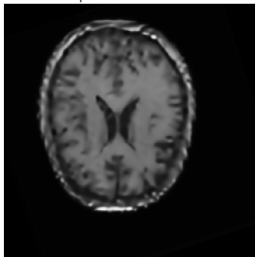
Bicubic Interpolation x4



Original



Super Resolution x4

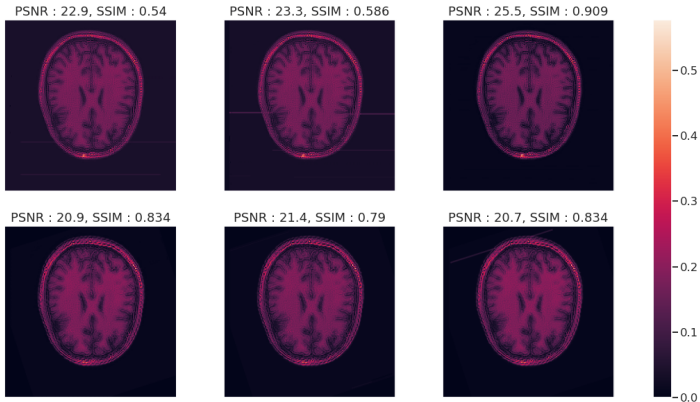


Bicubic Interpolation x4



EDSR absolute difference per angle

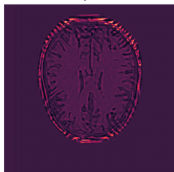
Comparisons edsr_{x2} with angle 0 (first row) and angle 18 (second row),
BC score PSNR : 17.9, SSIM : 0.269



WDSR absolute difference per angle

Comparisons wdsrx4 with angle 0 (first row) and angle 18 (second row),
BC score PSNR : 16.8, SSIM : 0.3

PSNR : 15.5, SSIM : 0.261



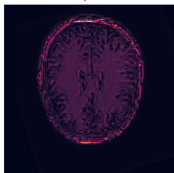
PSNR : 16.7, SSIM : 0.275



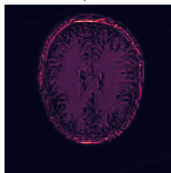
PSNR : 17.6, SSIM : 0.287



PSNR : 22.3, SSIM : 0.781



PSNR : 22.1, SSIM : 0.815



PSNR : 22.2, SSIM : 0.815

