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## Riddhish Bhaodia and Alankar Kotwal : Assignment 2 -- Question 2

```
tic;
input = load('assignmentImageDenoisingBrainNoisy.mat');

noisemodel = partA(input.imageNoisy);
disp(noisemodel);

0.0611 + 0.0587i
```

### Part B

```
[noisy,denoisedquad,denoisedhuber,denoisedadap] = partB(input);

figure;
imshow(noisy,[]);
title('The Noisy Image');
colorbar;
colormap(gray(256)); axis image; axis off

figure;
imshow(denoisedquad,[]);
title('The output of quadratic prior filter');
colorbar;
colormap(gray(256)); axis image; axis off

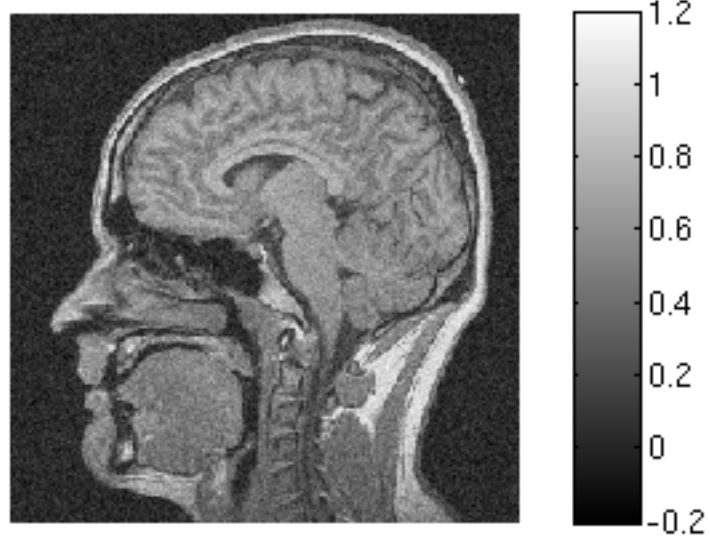
figure;
imshow(denoisedhuber,[]);
title('The output of huber prior filter');
colorbar;
colormap(gray(256)); axis image; axis off

figure;
imshow(denoisedadap,[]);
title('The output of discontinuity adaptive prior filter');
colorbar;
colormap(gray(256)); axis image; axis off

Warning: Displaying real part of complex input.
```

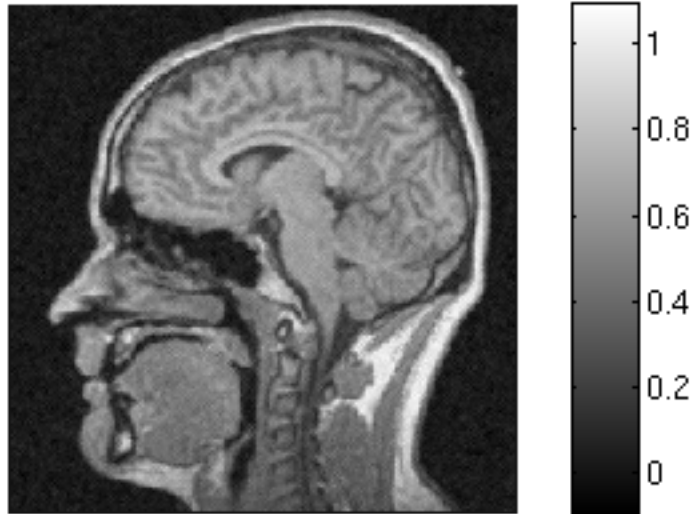
---

The Noisy Image



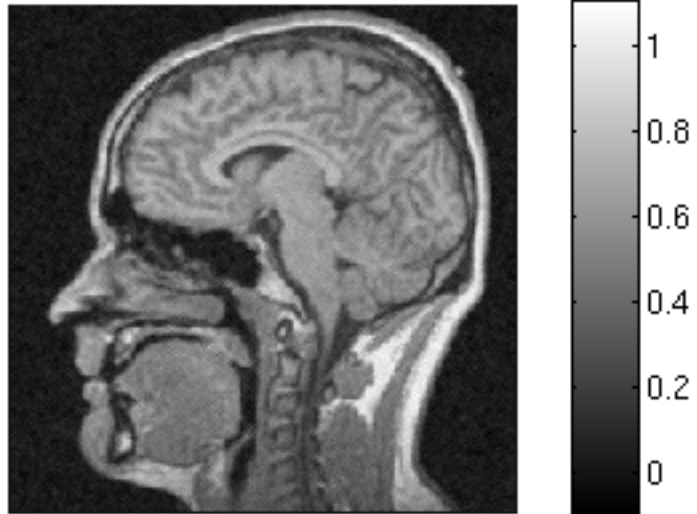
---

The output of quadratic prior filter



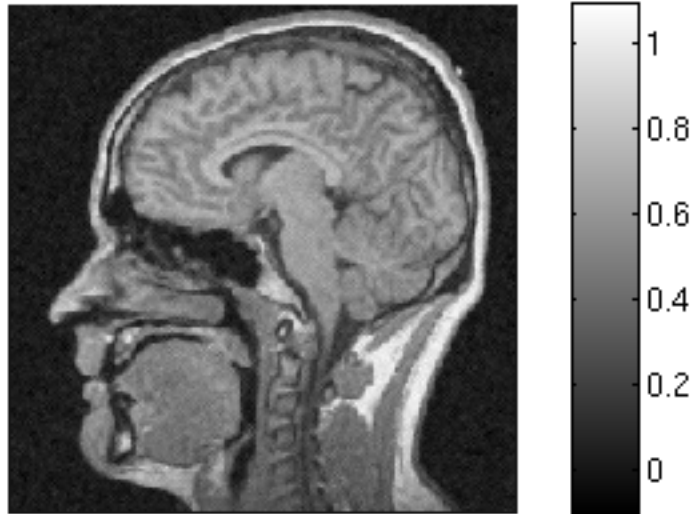
---

The output of huber prior filter



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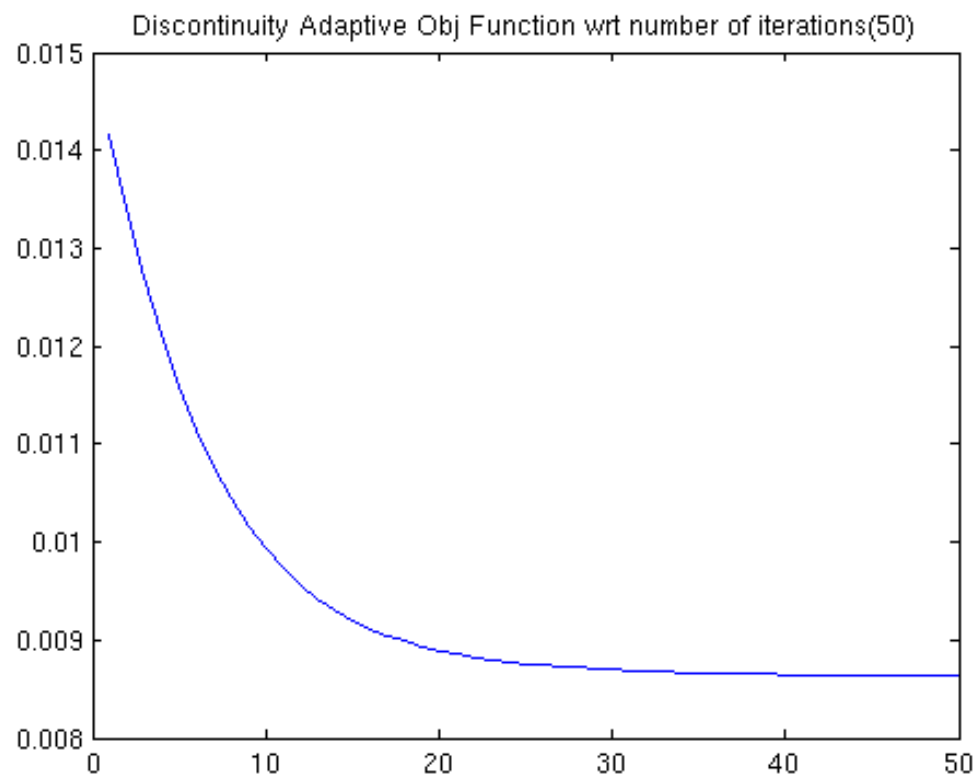
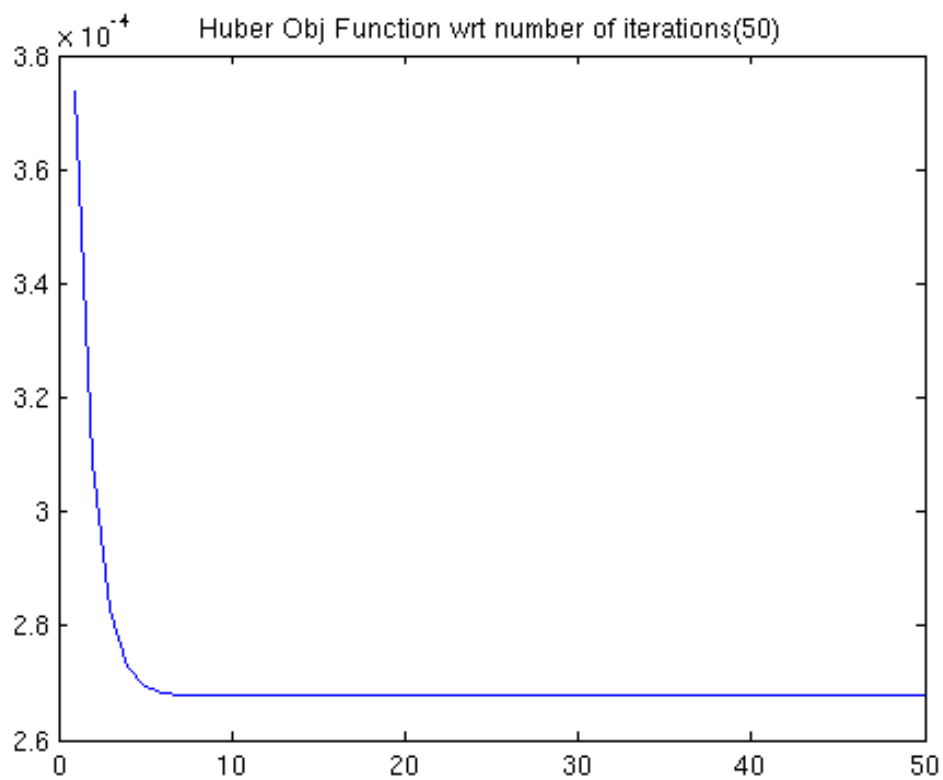
The output of discontinuity adaptive prior filter



## Part C

```
dummy = partC(input);  
toc;
```

*Elapsed time is 114.382701 seconds.*



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*Published with MATLAB® 7.14*