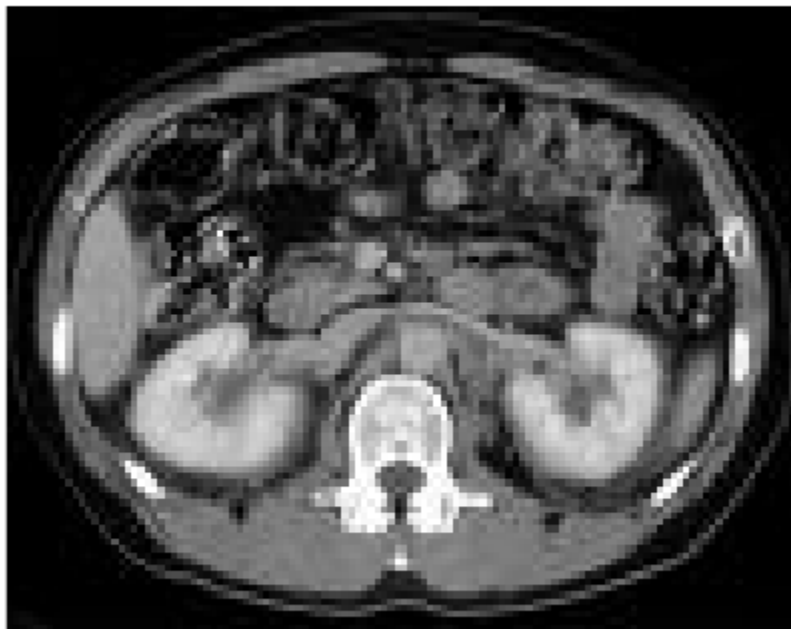# hw4q5

May 9, 2020

1 HW4 Computing Problem 5

```
[14]: A=imread('CTimage.jpg');
```
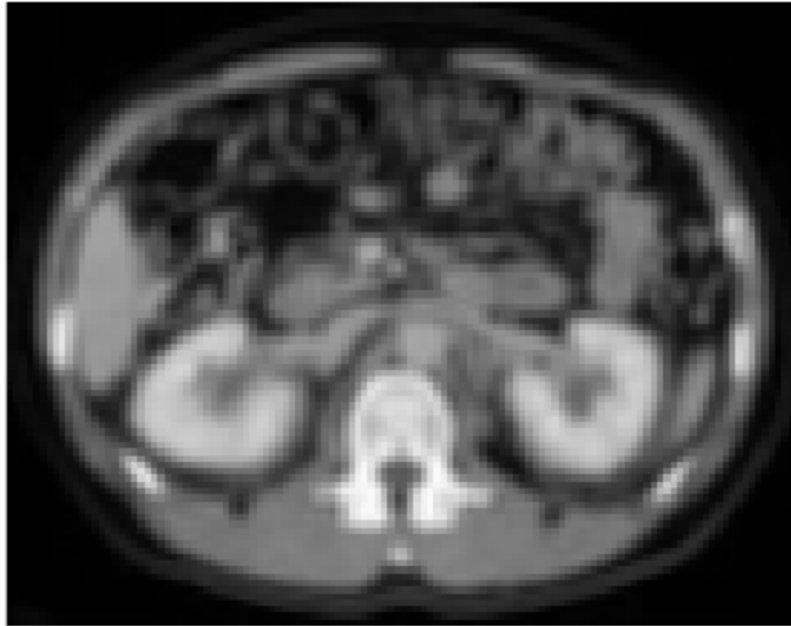
```
[8]: imshow(A);
```



```
[15]: A = rgb2gray(A);
```

```
[16]: avg3 = fspecial('average');
```

```
[17]: A1 = imfilter(A,avg3);
```
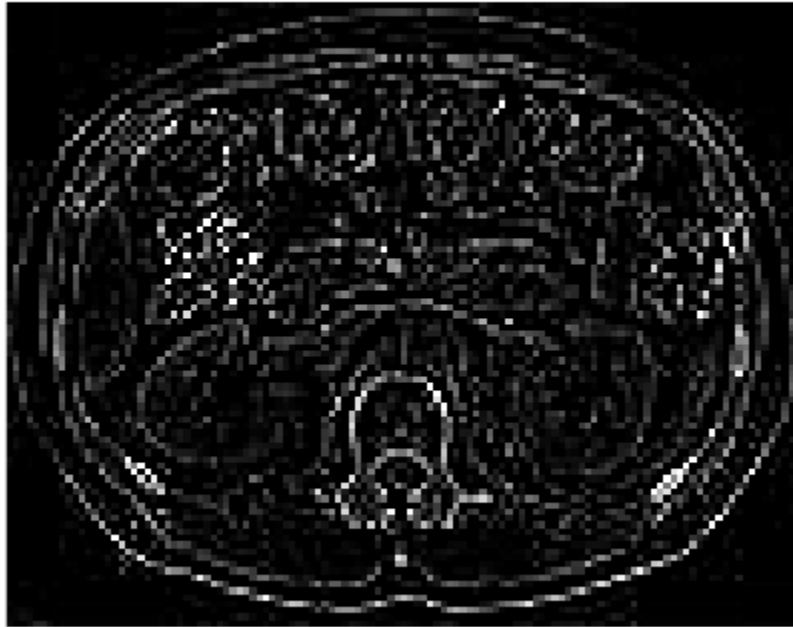
```
[19]: imshow(A1);
```



```
[26]: A1=double(A1);

[20]: lapFilter = [0 -1 0; -1 4 -1; 0 -1 0];

[21]: A2 = conv2(A, lapFilter,'same');

[28]: A2=double(A2);

[29]: A3 = A1+A2;

[31]: imshow(uint8(A2));
```
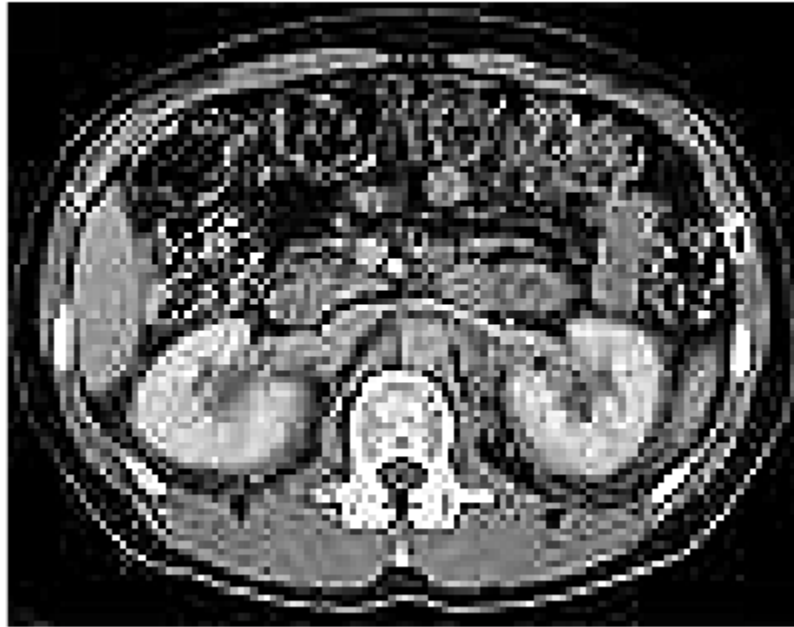
```
[30]: imshow(uint8(A3));
```

[ ]: