

# Fractal Dimension analysis of collagen SHG image

Load the image

```
shgim = imread('./documentation/modifiedBlanket2D/SHG Intensity Image.tif');
```

Calculate the pixel-wise intensity-based fractal dimension

```
fractalDimension = modifiedBlanket2D(shgim,5);  
figure; imagesc(fractalDimension,'AlphaData',single(shgim)./8191); colormap jet;  
caxis([2 4]); % Adjust color limits (if necessary)  
axis image; colorbar;  
set(gca,'Color',[0 0 0]); % Set background color to black
```

