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i)

```
A=double(imread('Fig0931(a).png'));  
figure, imshow(A), title('Visualization of "Fig0931(a).png"')  
B=strel('rectangle',[51 1]);  
A_eroded=imerode(A,B);  
figure, imshow(A_eroded), title('A_eroded: Erosion of A by B')
```

Warning: Image is too big to fit on screen; displaying at 67%
Warning: Image is too big to fit on screen; displaying at 67%

Visualization of "Fig0931(a).png"

ponents or broken connection paths. There is no point past the level of detail required to identify those elements.

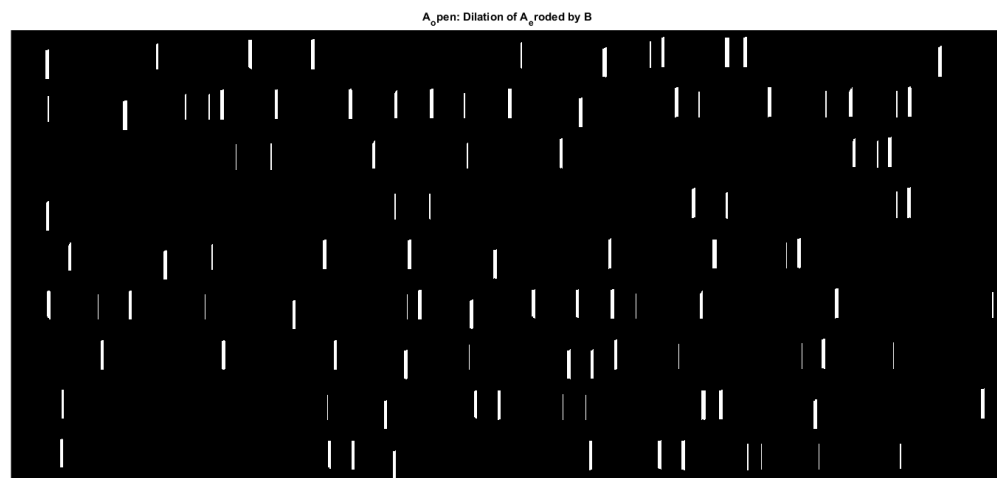
Segmentation of nontrivial images is one of the most difficult tasks in image processing. Segmentation accuracy determines the effectiveness of computerized analysis procedures. For this reason, considerable effort must be taken to improve the probability of rugged segmentation. In applications such as industrial inspection applications, at least some degree of accuracy in the environment is possible at times. The experienced image processing designer invariably pays considerable attention to such details.



ii)

```
A_open=imdilate(A_eroded,B);  
figure, imshow(A_open), title('A_open: Dilation of A_eroded by B')
```

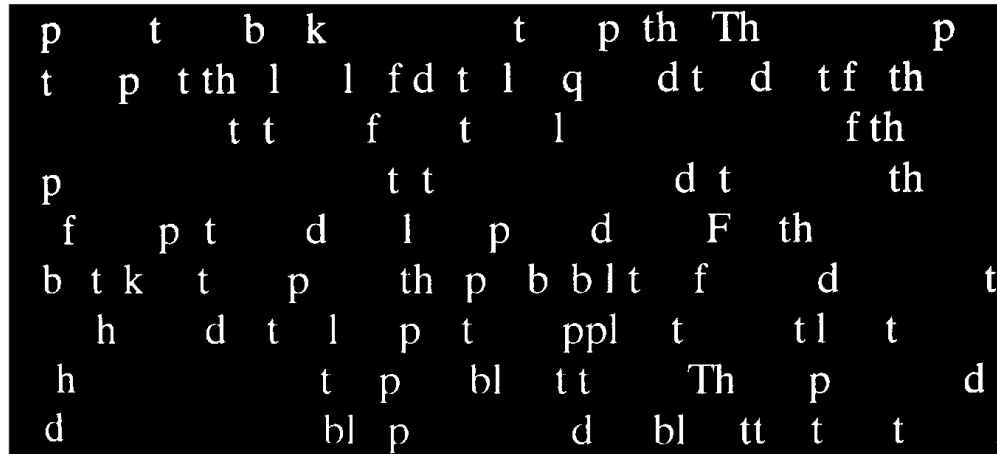
Warning: Image is too big to fit on screen; displaying at 67%



iii)

```
A_reconstruct=imreconstruct(A_eroded,A);  
figure, imshow(A_reconstruct)
```

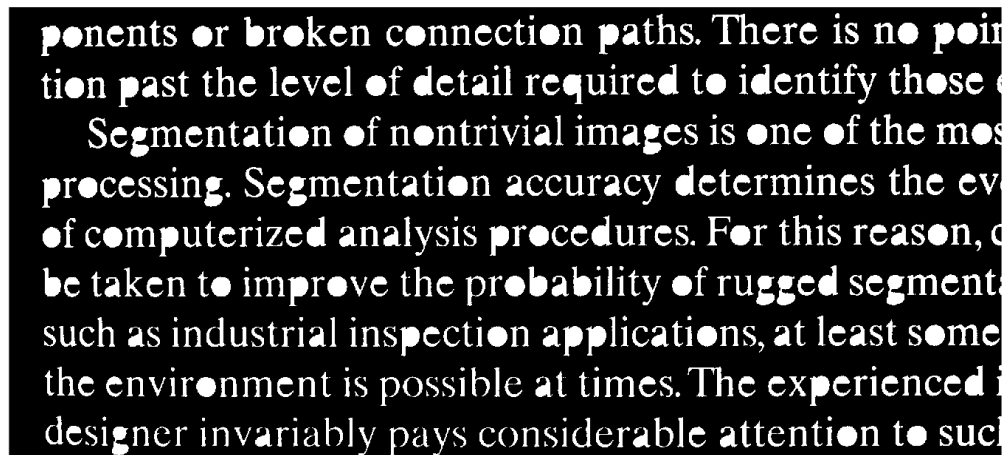
Warning: Image is too big to fit on screen; displaying at 67%



iv)

```
A_filled=imfill(A,'holes');
figure, imshow(A_filled)
```

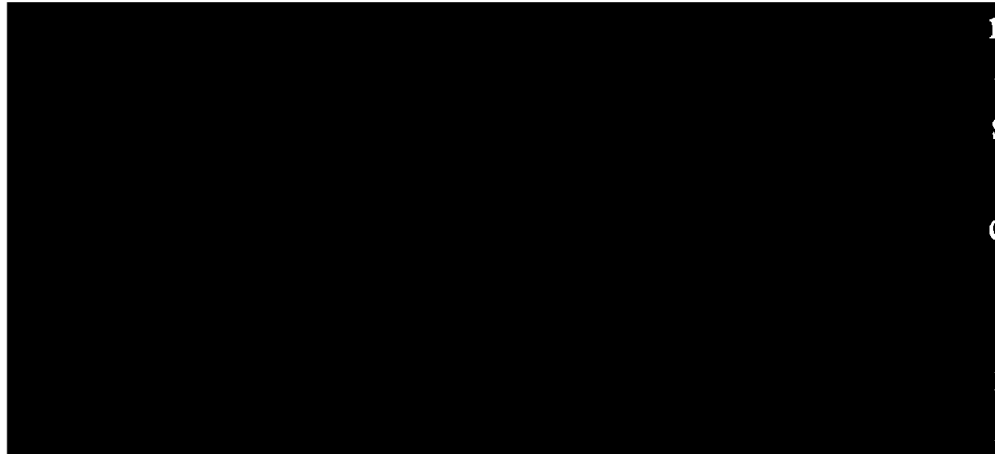
Warning: Image is too big to fit on screen; displaying at 67%



v)

```
A_border=imclearborder(A);
figure, imshow(A-A_border)
```

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vi)

```
A_removed=bwareaopen(A,100);  
figure, imshow(A_removed)
```

Warning: Image is too big to fit on screen; displaying at 67%

ponents or broken connection paths. There is no point in going past the level of detail required to identify those components.

Segmentation of nontrivial images is one of the most difficult parts of image processing. Segmentation accuracy determines the effectiveness of computerized analysis procedures. For this reason, considerable effort must be taken to improve the probability of rugged segmentation. In applications such as industrial inspection applications, at least some degree of accuracy in the environment is possible at times. The experienced designer invariably pays considerable attention to such

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