

**Original image**



**Fig. Aaa      Repository File 2**

**Contrast stretched image**



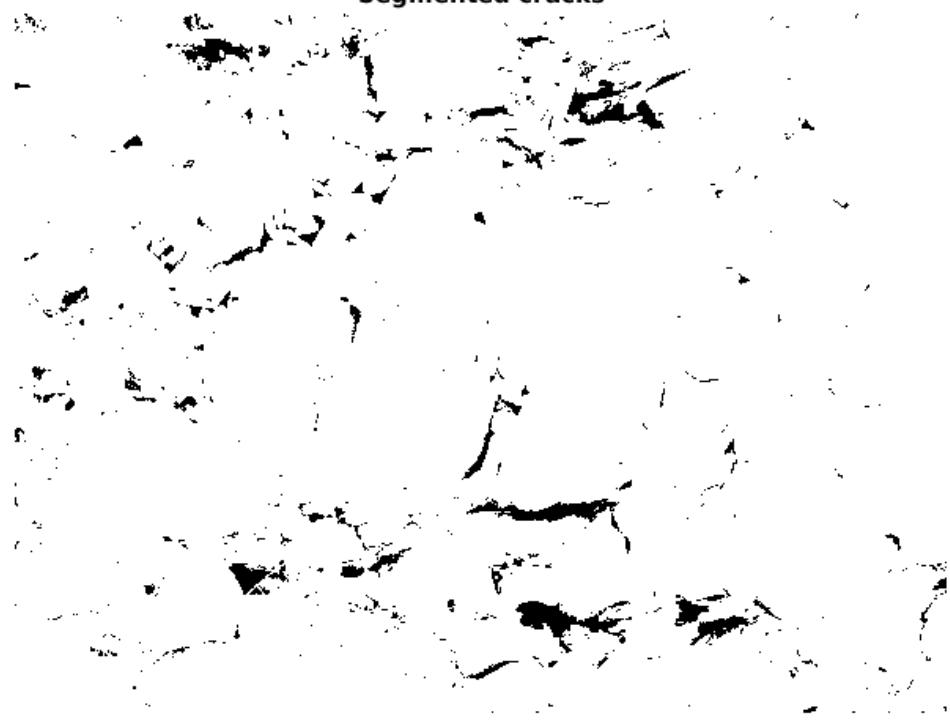
**Fig. AAb**

**RGB to gray (contrast stretched)**



**Fig. Aac**

**Segmented cracks**



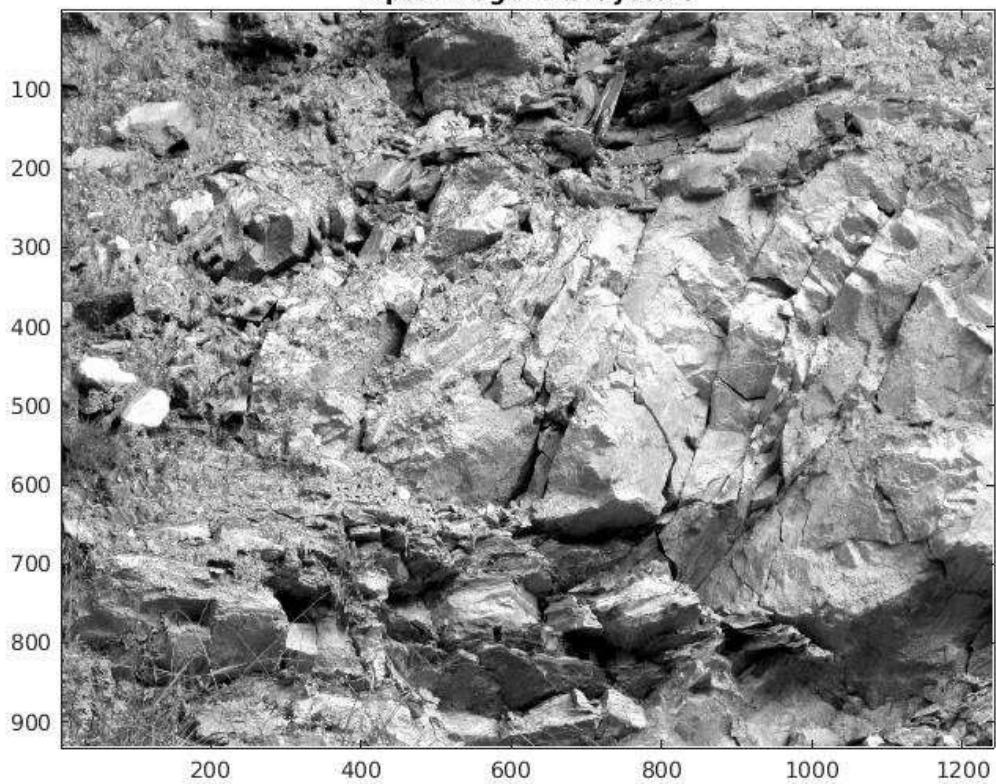
**Fig. Aad**

**Original Image**

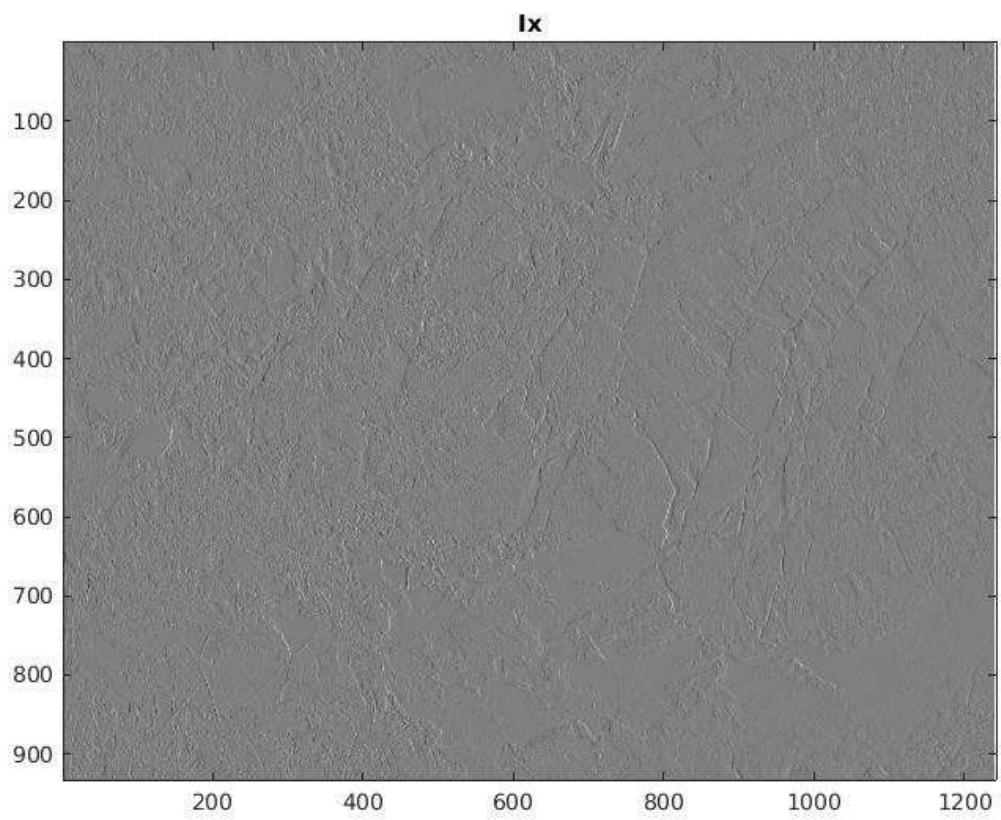


**Fig. Baa**

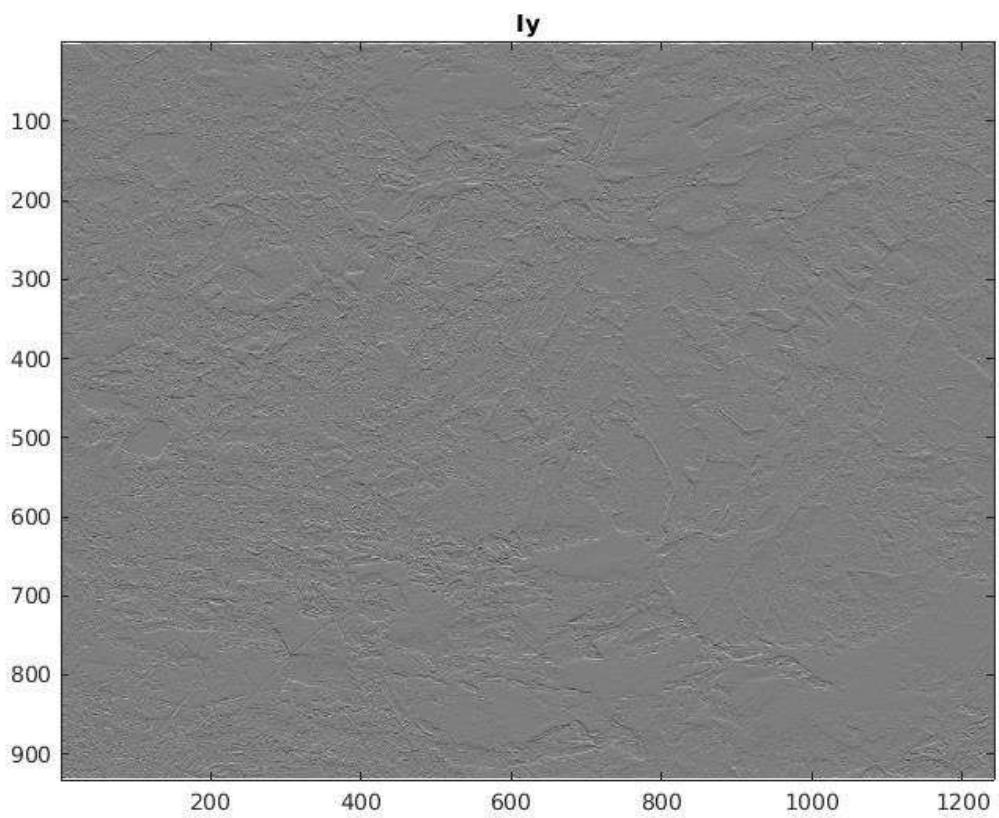
**Input Image in Grayscale**



**Fig. Bab**



**Fig. Bac**



**Fig. Bad**

**Original Image**



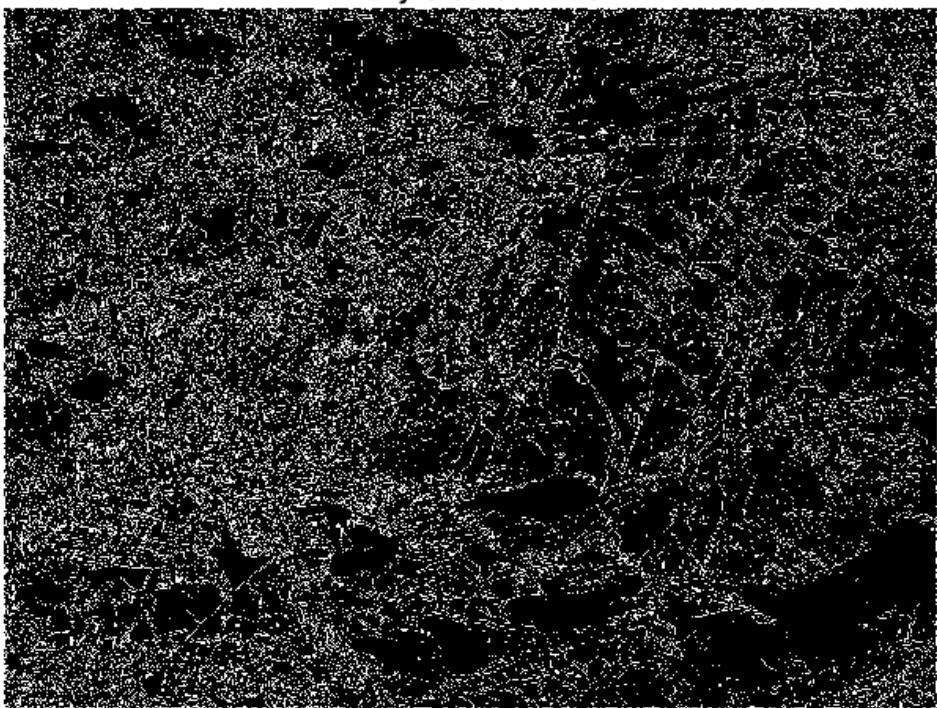
**Fig. Caa**

**Gray Image**



**Fig. Cab**

**Binary Gradient Mask**



**Fig. Cac**

**Dilated Gradient Mask**



**Fig. Cad**

**Bilateral Filtered Image**



**Fig. Cae**

**Original Image**



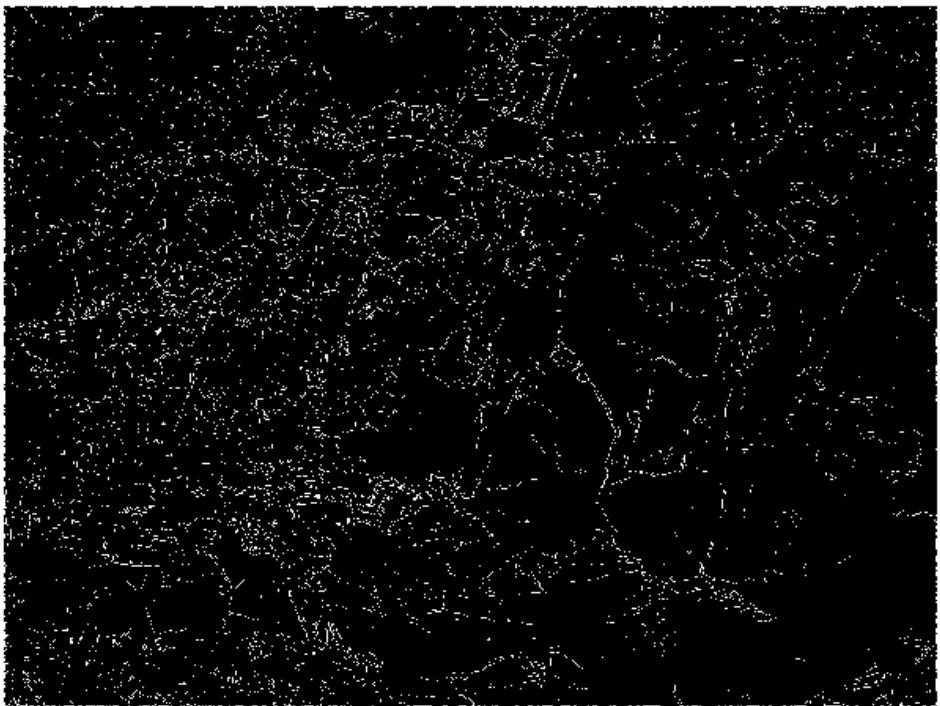
**Fig. Daa**

**Gray Image**



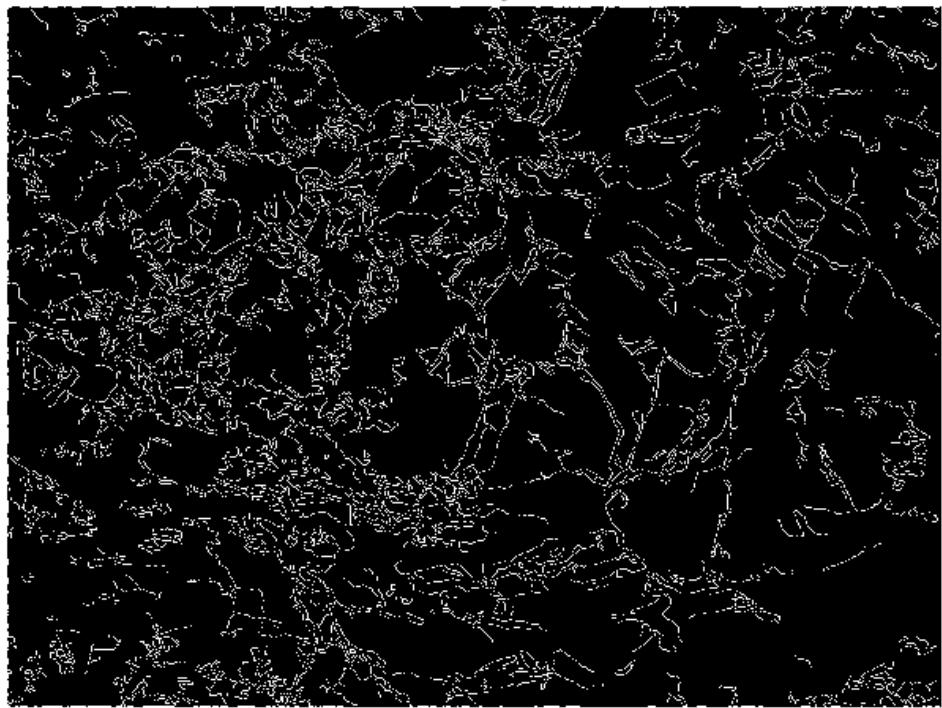
**Fig. Dab**

**Sobel**



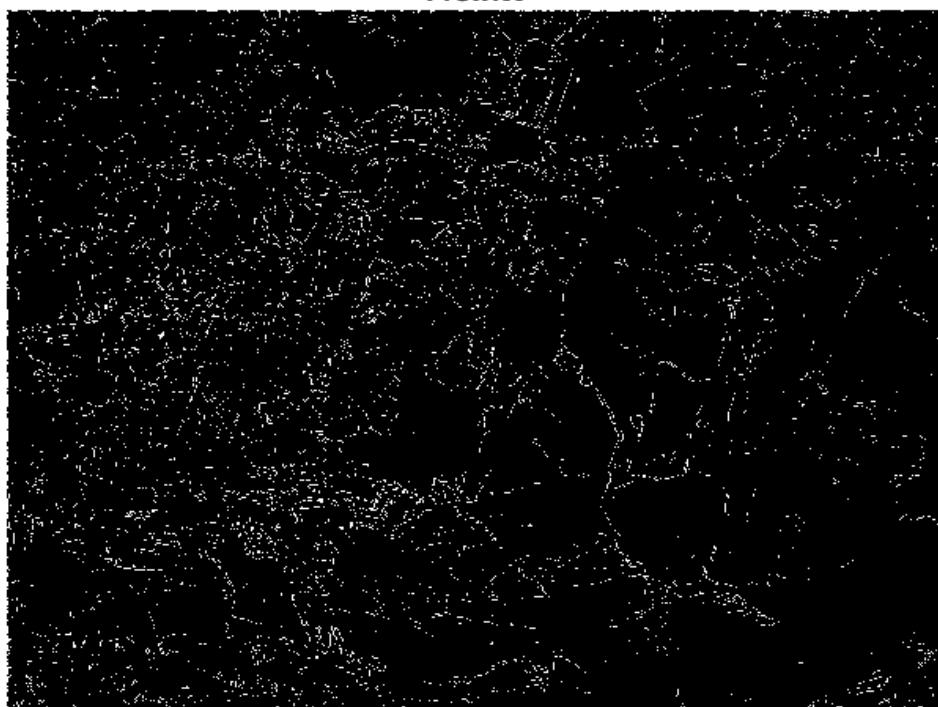
**Fig. Dac**

**Canny**



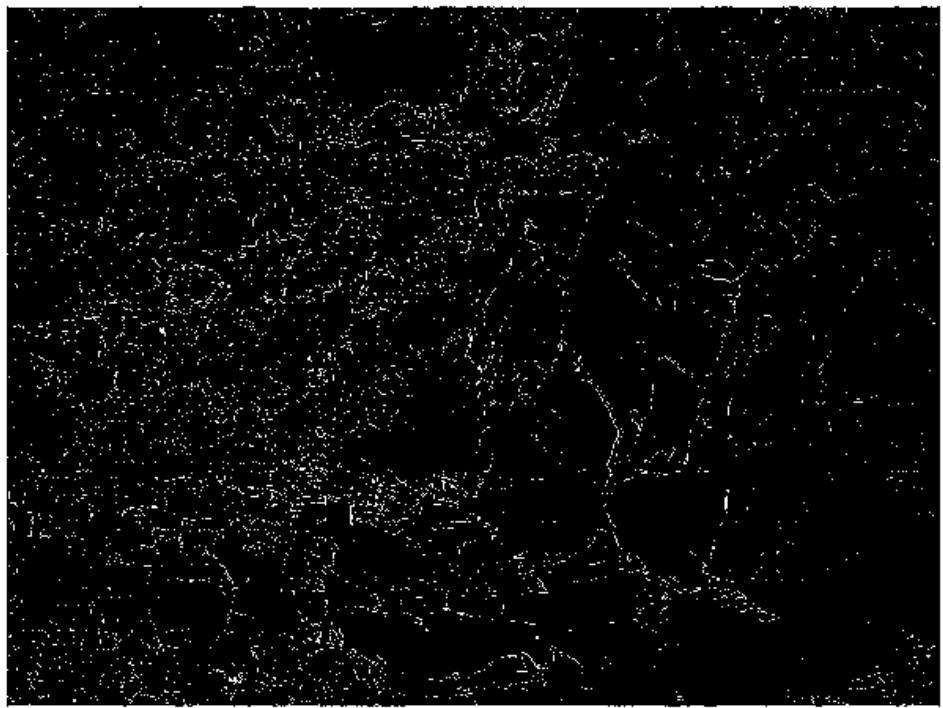
**Fig. Dad**

**Prewitt**

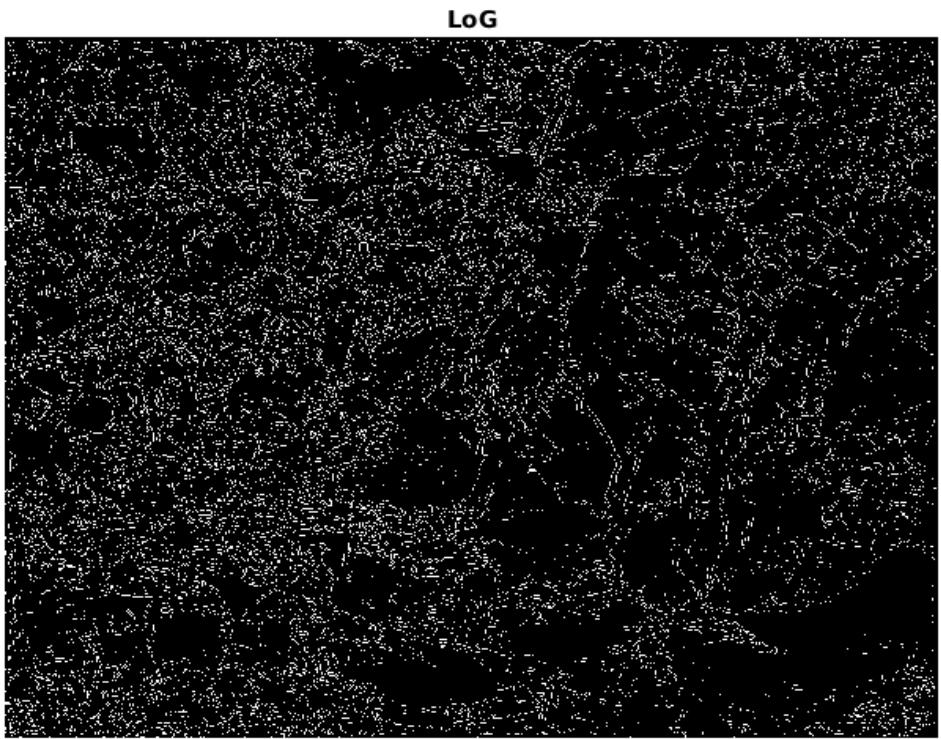


**Fig. Dae**

**Roberts**

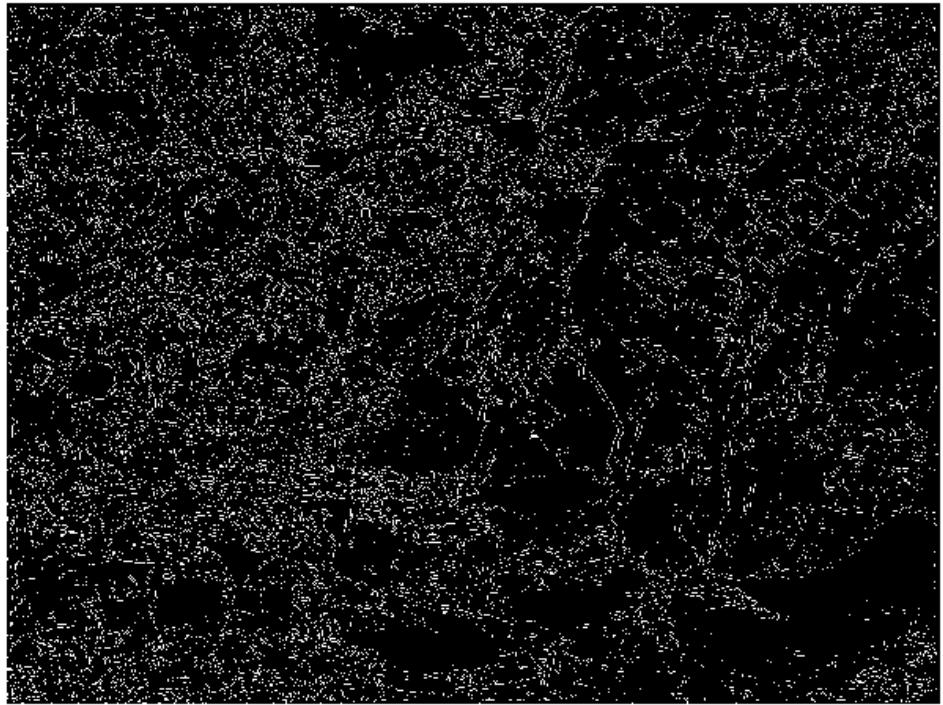


**Fig. Daf**



**Fig. Dag**

Zerocross



**Fig. Dah**

**Original image**



**Fig. Aba**

**Contrast stretched image**



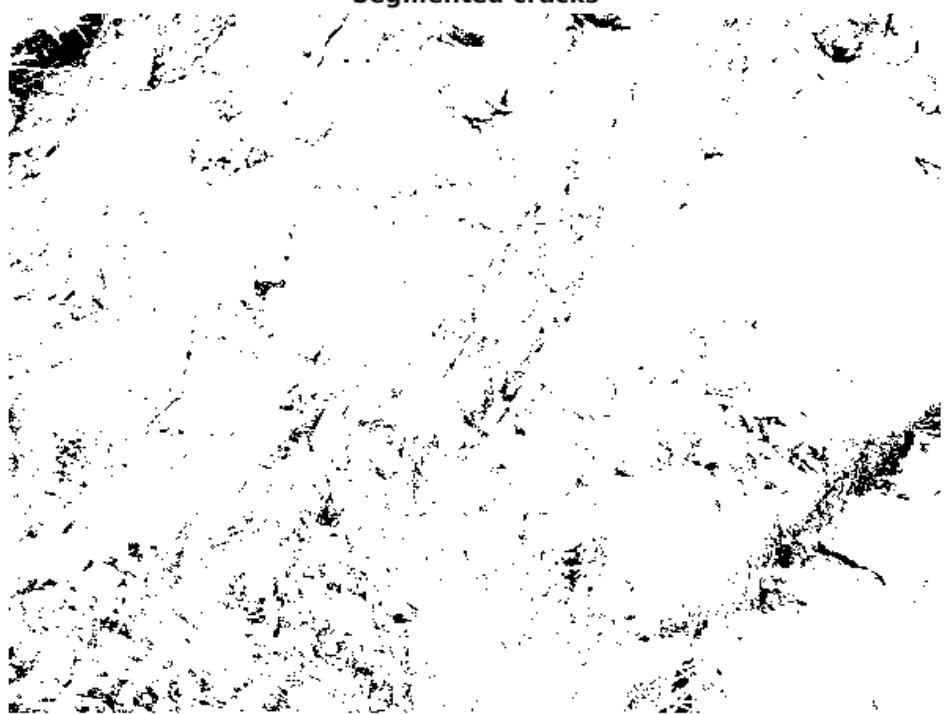
**Fig. Abb**

**RGB to gray (contrast stretched)**



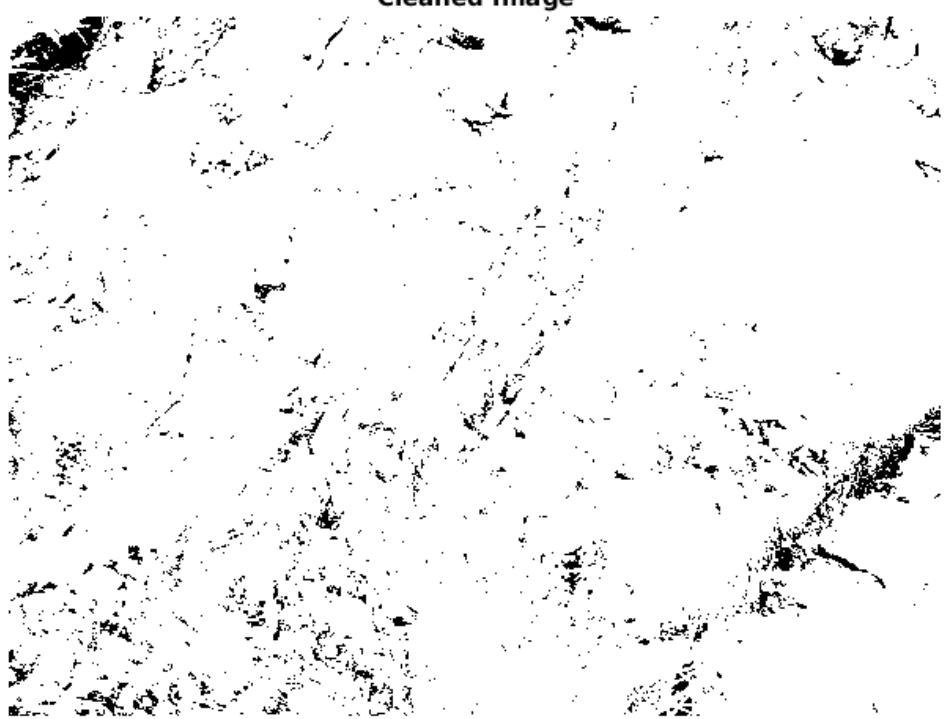
**Fig. Abc**

**Segmented cracks**



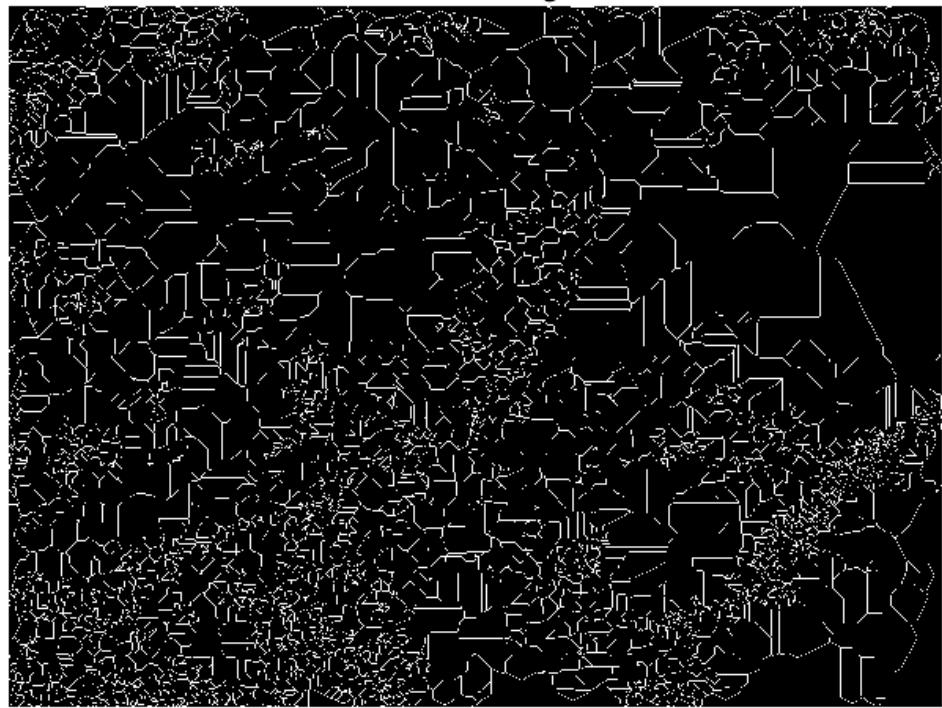
**Fig. Abd**

**Cleaned image**



**Fig. Abe**

**Thinned image**



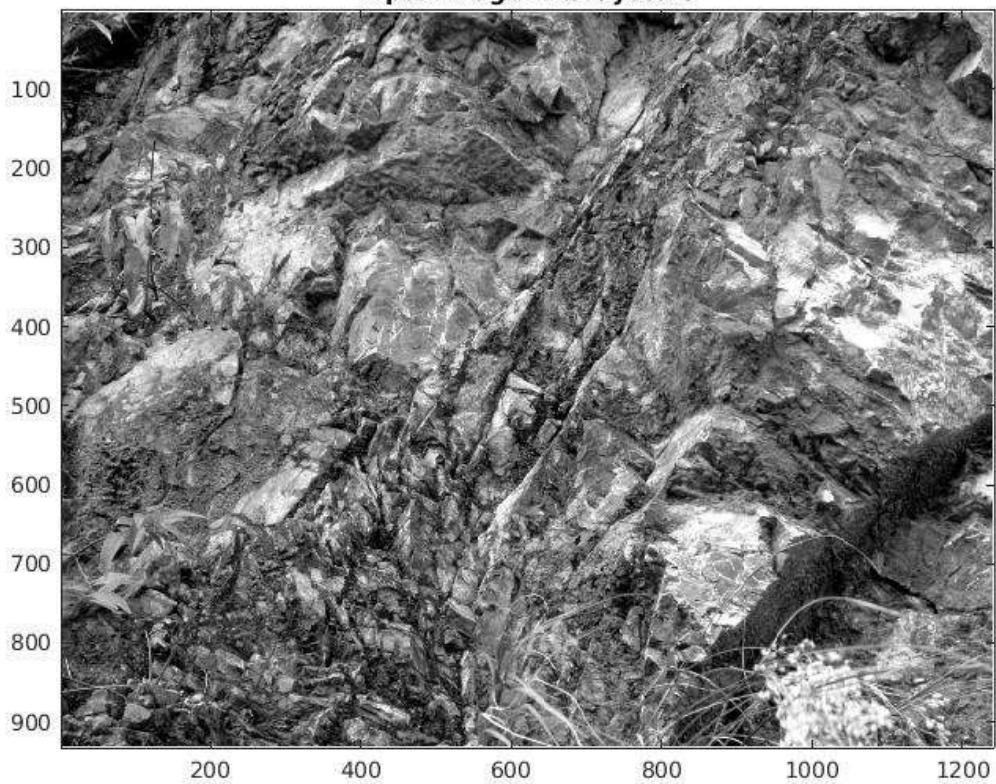
**Fig. Abf**

**Original Image**

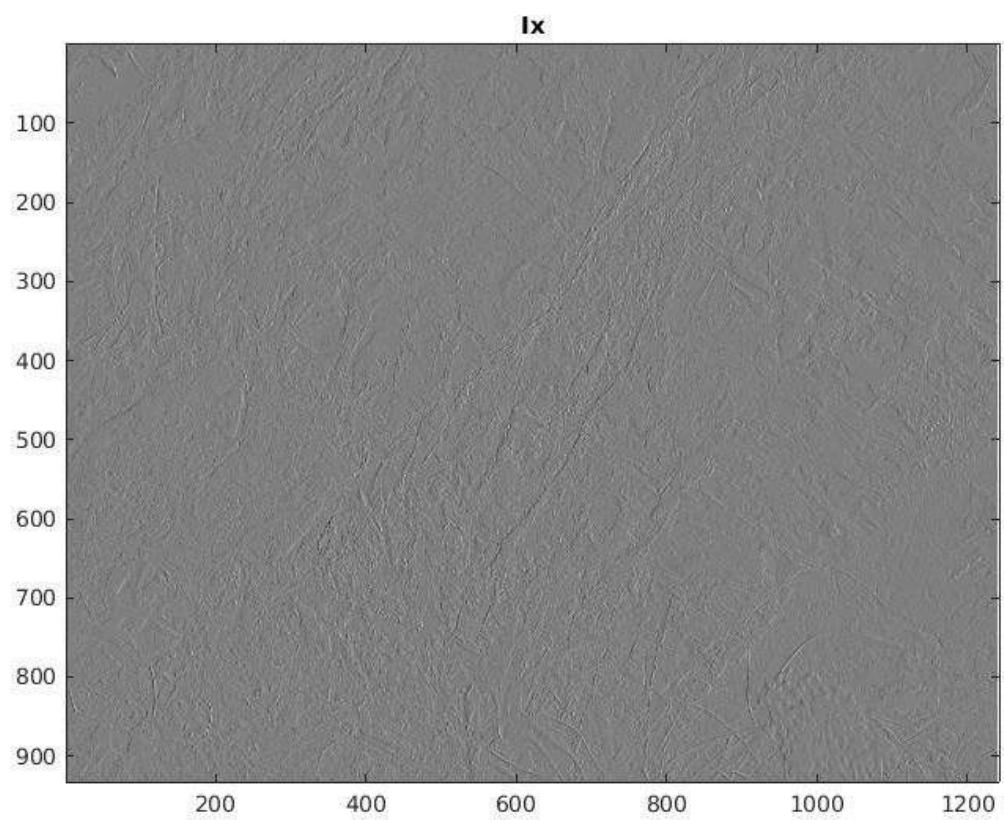


**Fig. Bba**

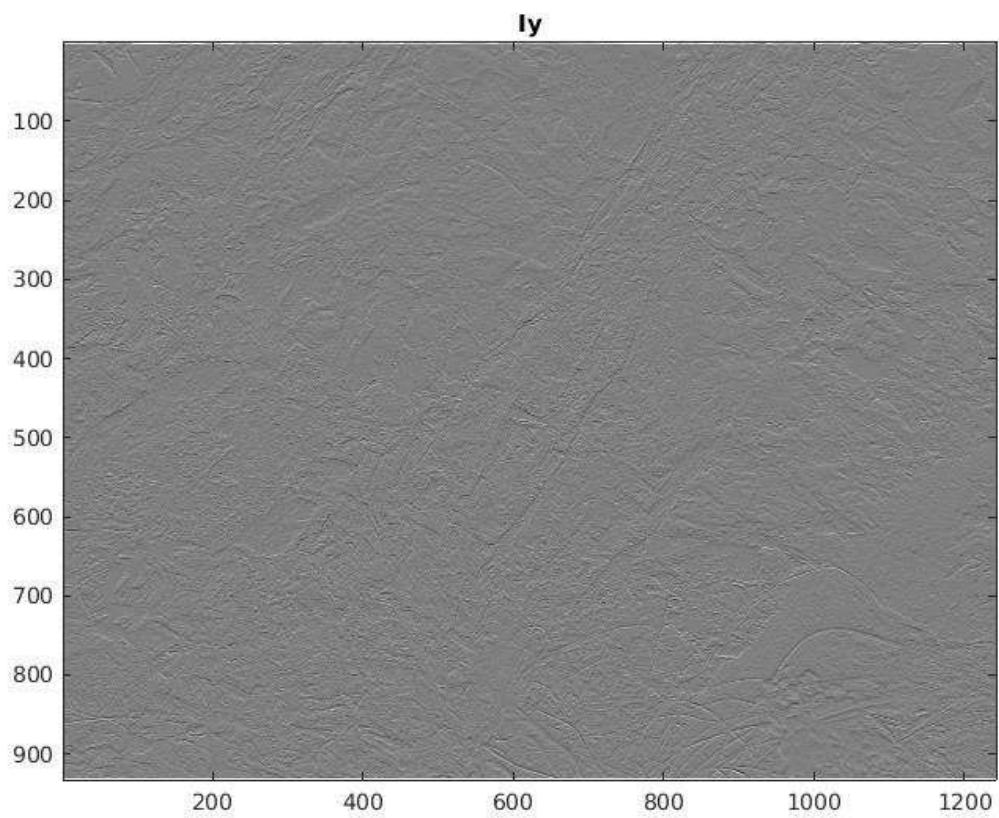
**Input Image in Grayscale**



**Fig. Bbb**

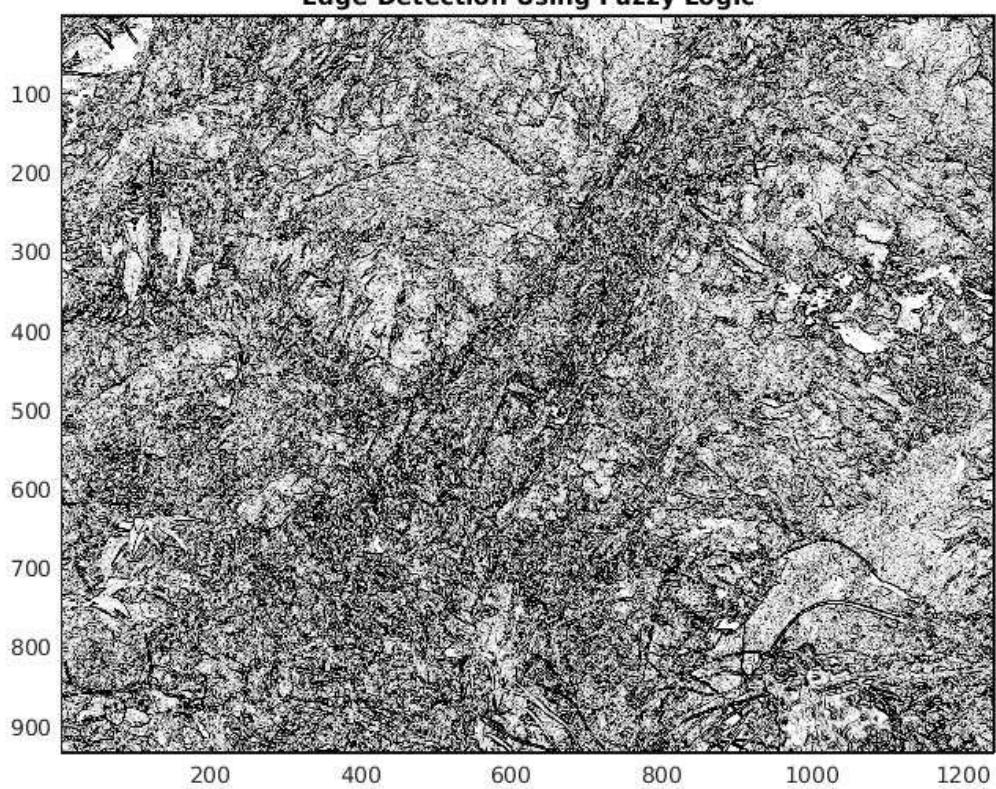


**Fig. Bbc**



**Fig. Bbd**

**Edge Detection Using Fuzzy Logic**



**Fig. bbf**

**Original Image**



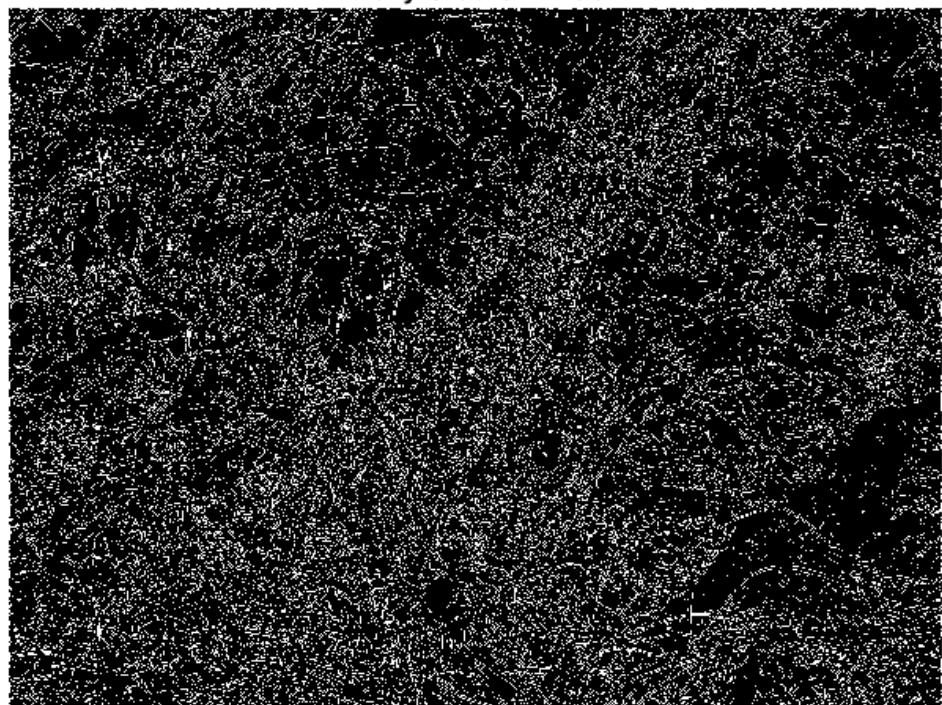
**Fig. Cba**

**Gray Image**



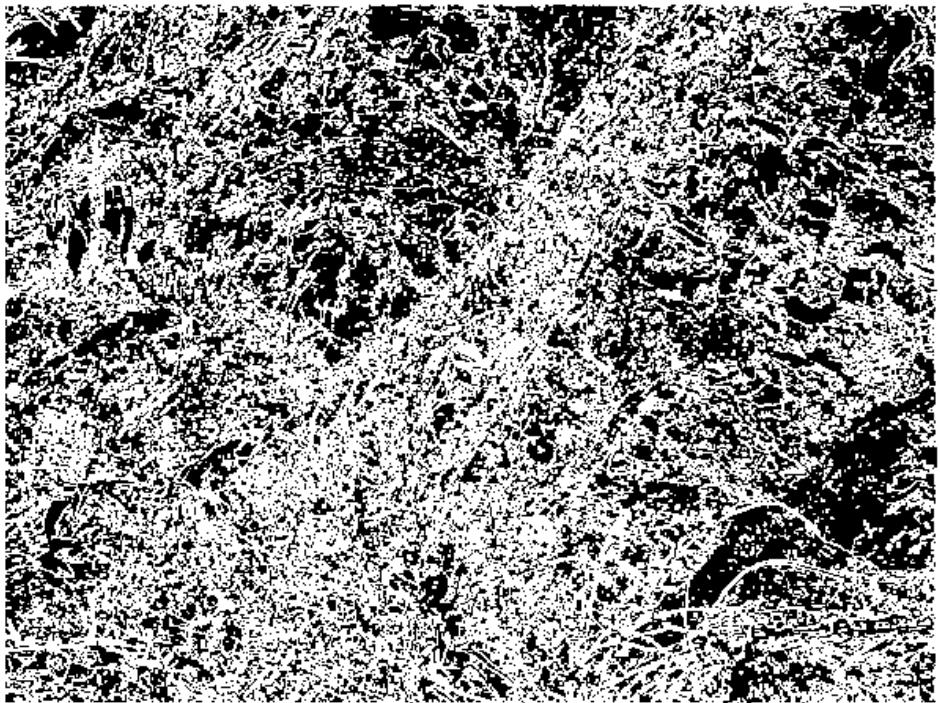
**Fig. Cbb**

**Binary Gradient Mask**



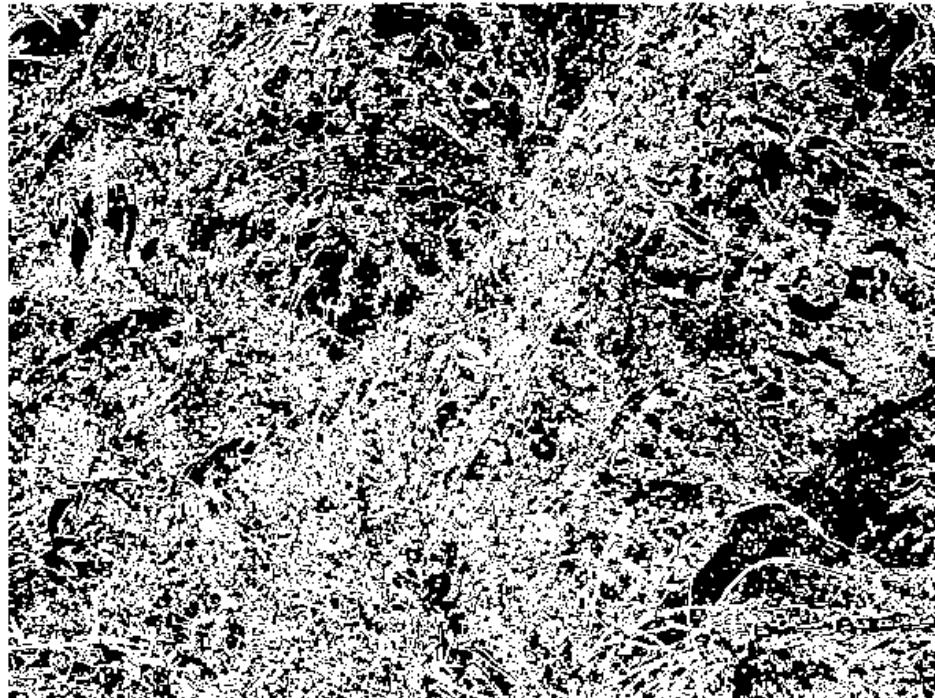
**Fig. Cbc**

**Dilated Gradient Mask**



**Fig. Cbd**

**Bilateral Filtered Image**



**Fig. Cbe**

**Original Image**



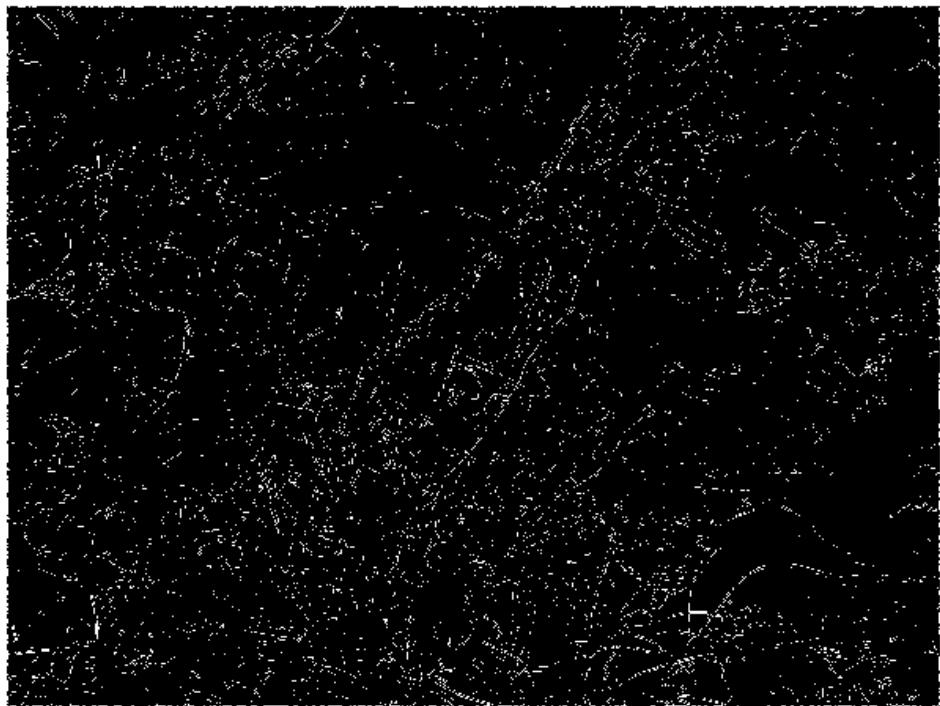
**Fig. Dba**

**Gray Image**



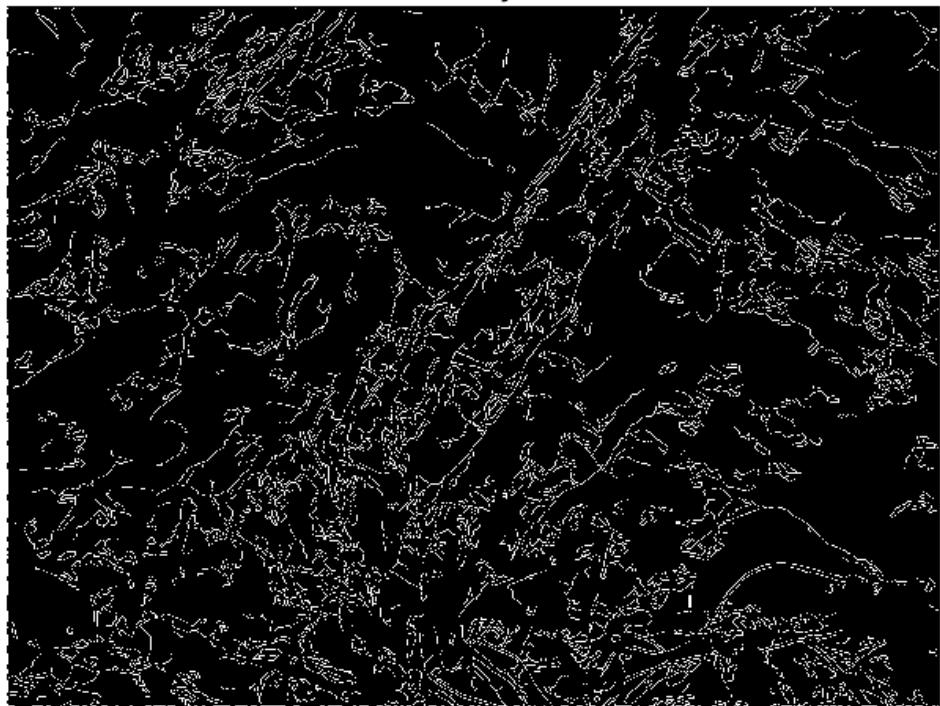
**Fig. Dbb**

**Sobel**



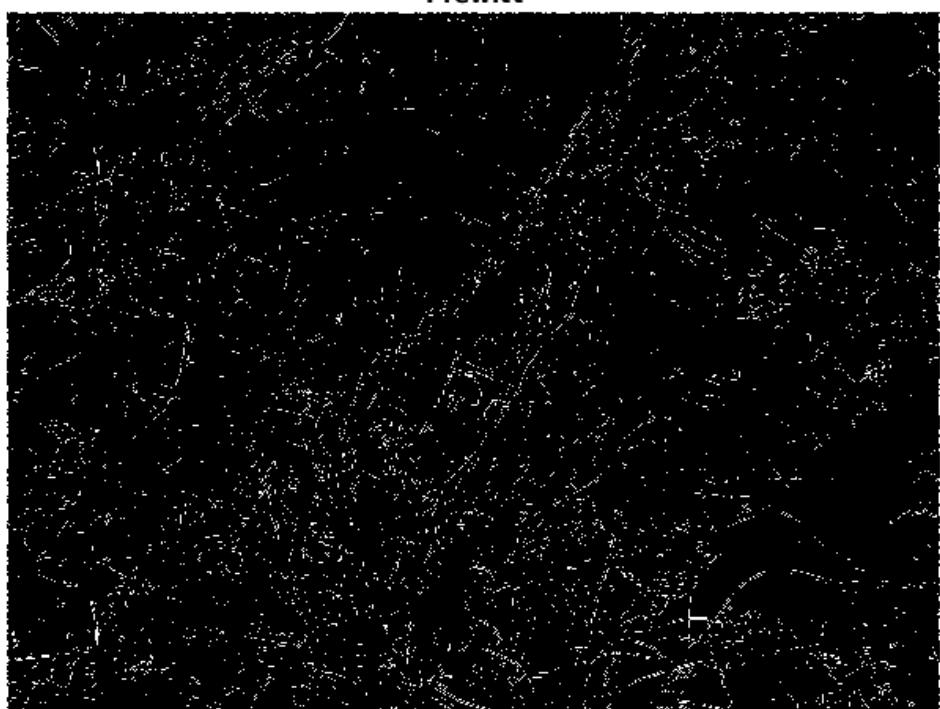
**Fig. Dbc**

**Canny**



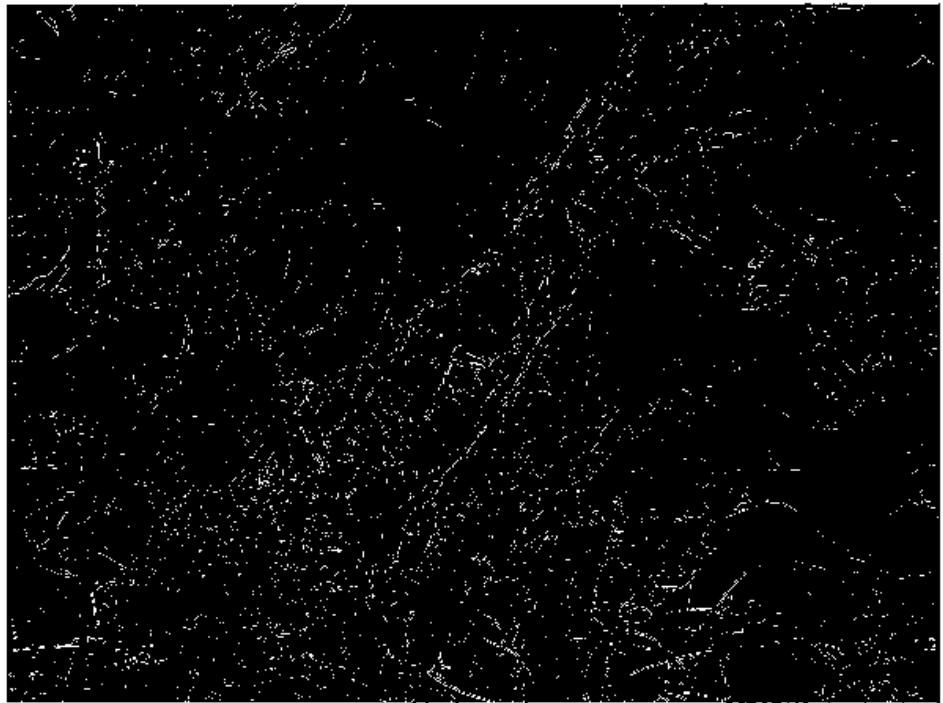
**Fig. Dbd**

**Prewitt**

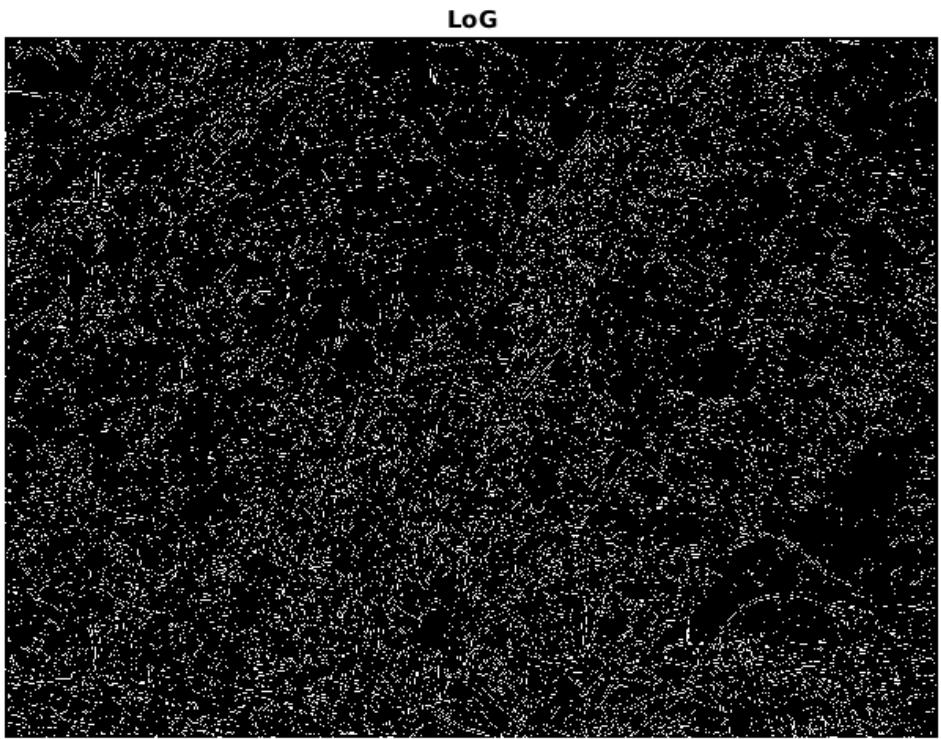


**Fig. Dbe**

**Roberts**

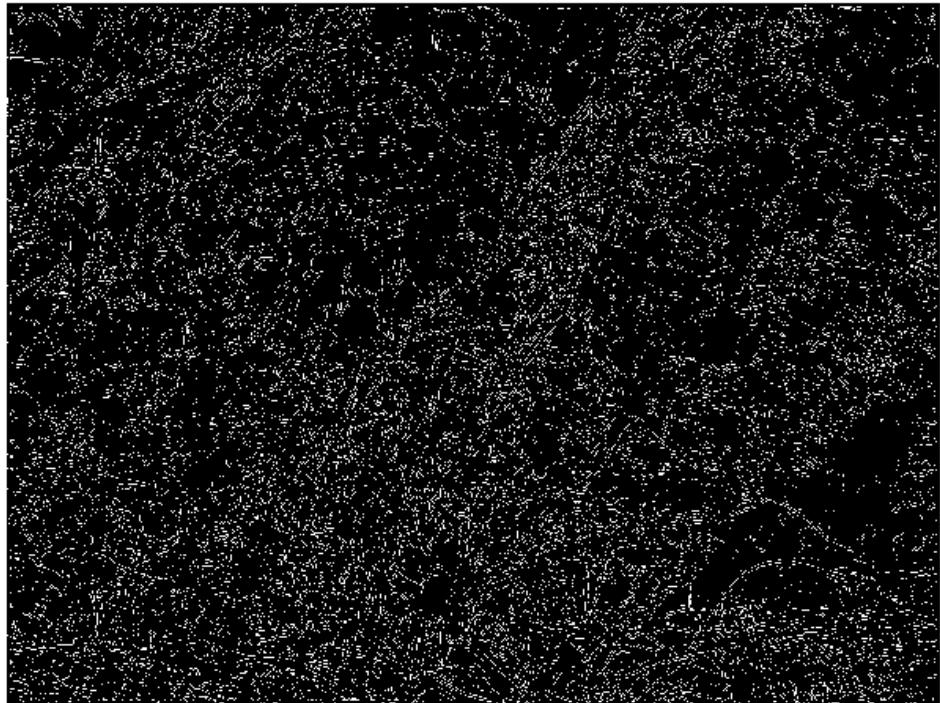


**Fig. Dbf**



**Fig. Dbg**

**Zerocross**



**Fig. Dbh**

**Original image**



**Fig. Aca**

**Contrast stretched image**



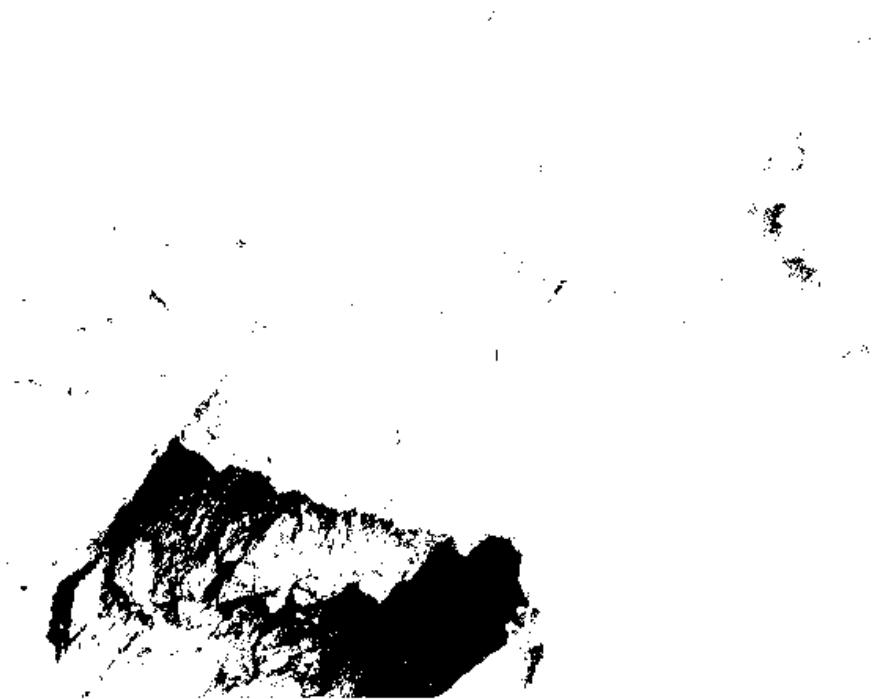
**Fig. Acb**

**RGB to gray (contrast stretched)**



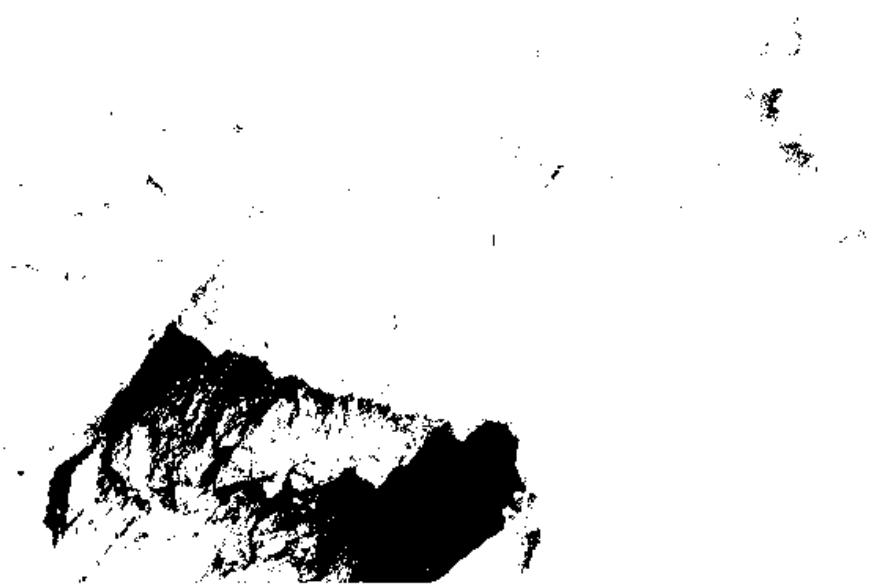
**Fig. Acc**

**Segmented cracks**



**Fig. Acd**

**Cleaned image**

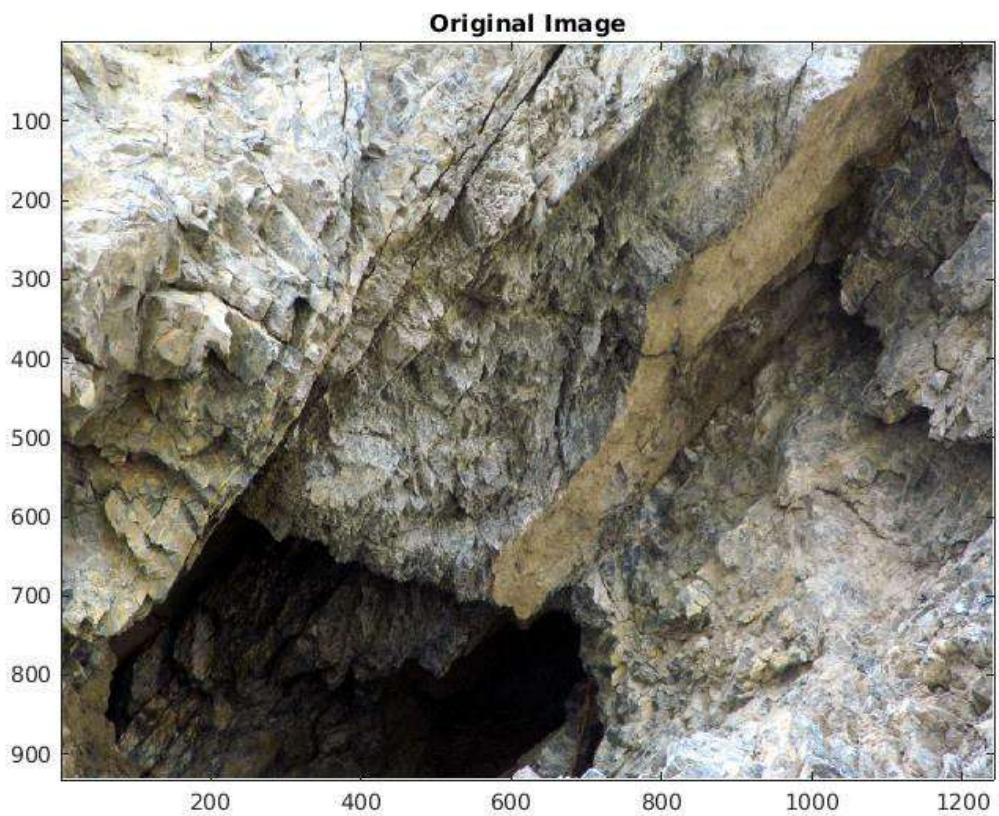


**Fig. Ace**

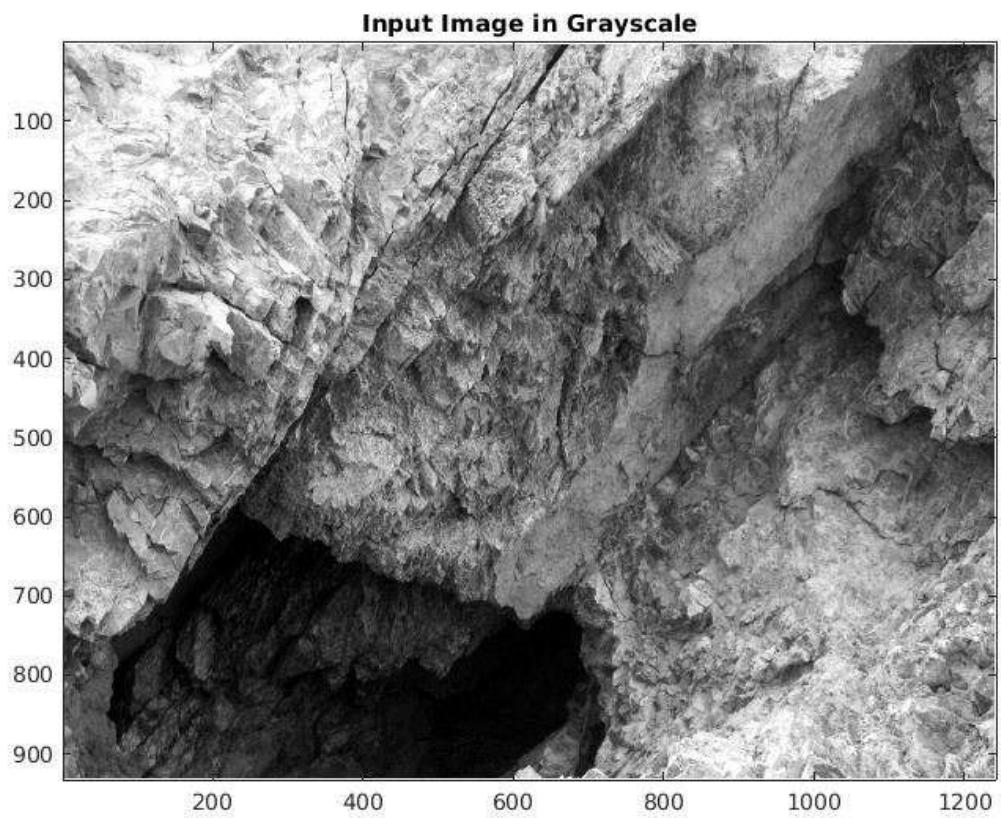
**Thinned image**



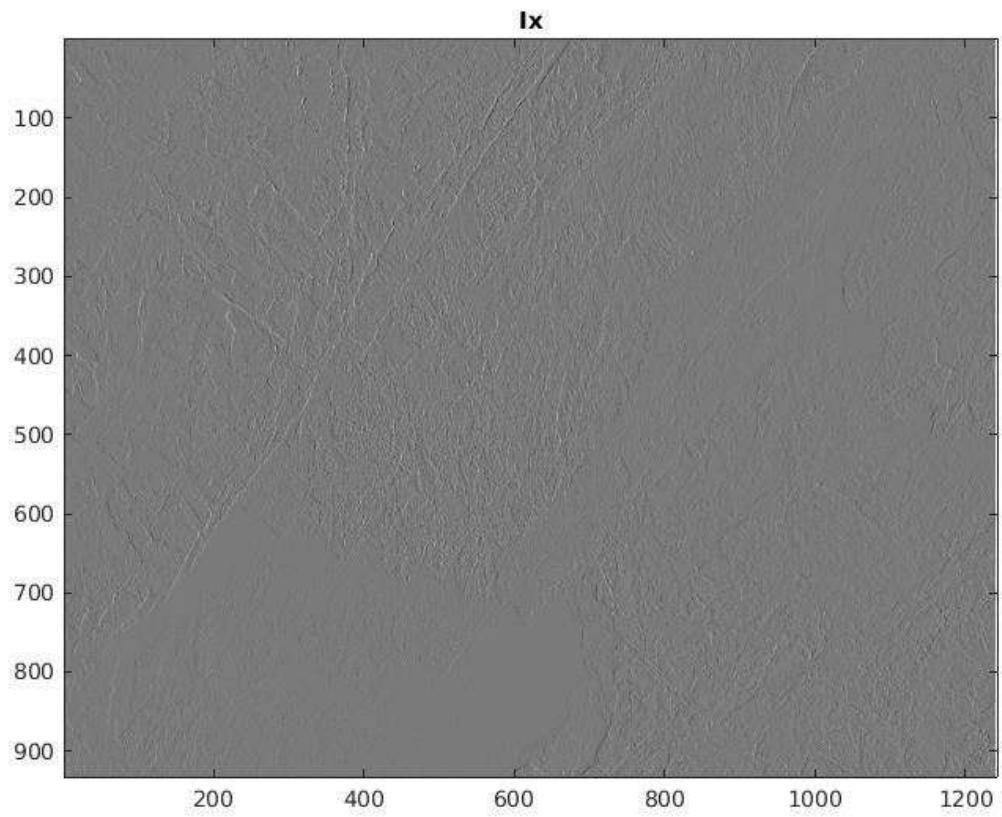
**Fig. Acf**



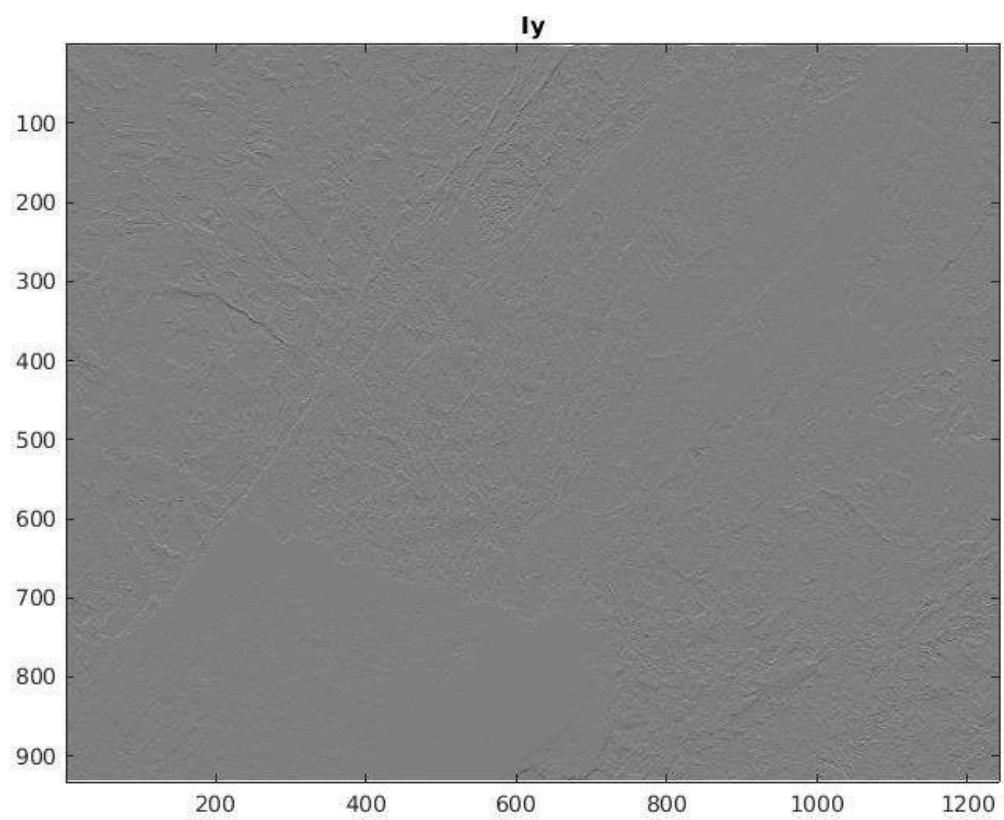
**Fig. Bca**



**Fig. Bcb**

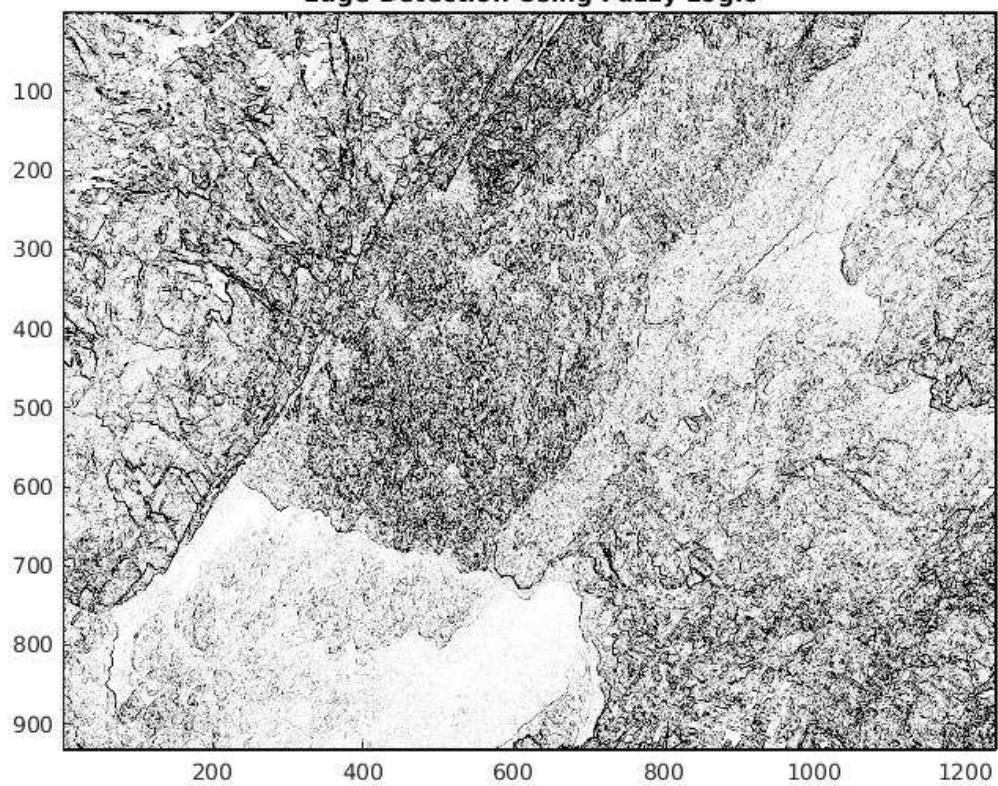


**Fig. Bcc**



**Fig. Bcd**

**Edge Detection Using Fuzzy Logic**



**Fig. Bcf**

**Original Image**



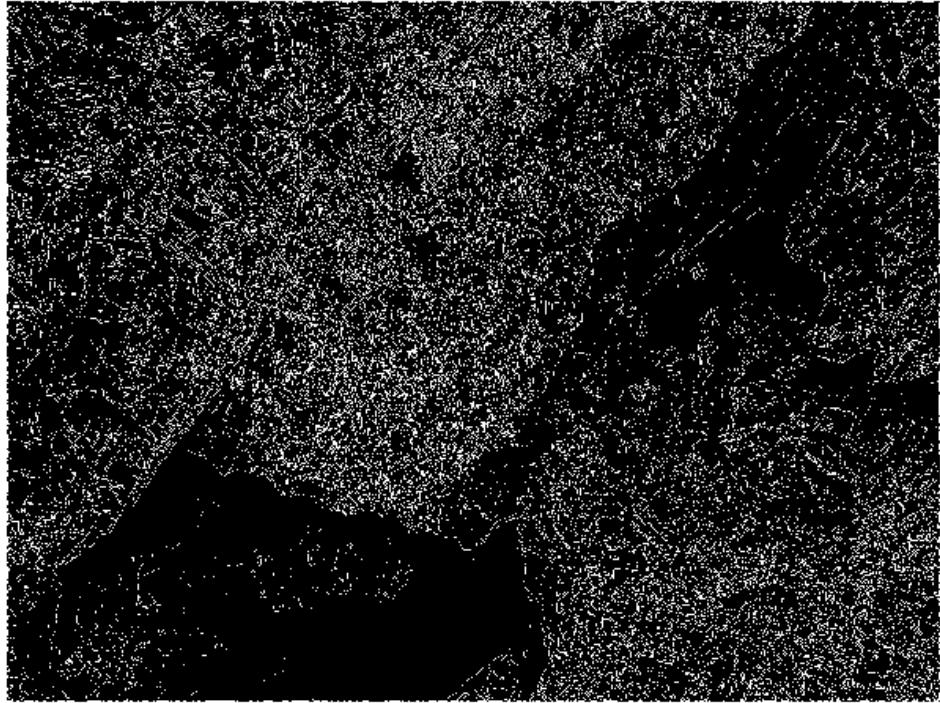
**Fig. Cca**

**Gray Image**



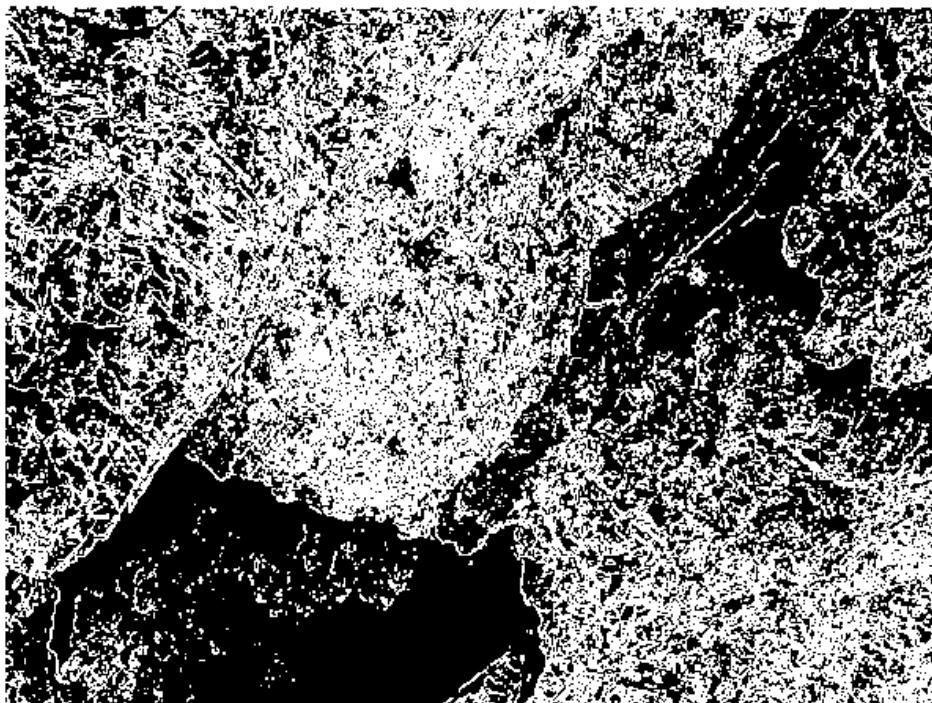
**Fig. Ccb**

**Binary Gradient Mask**



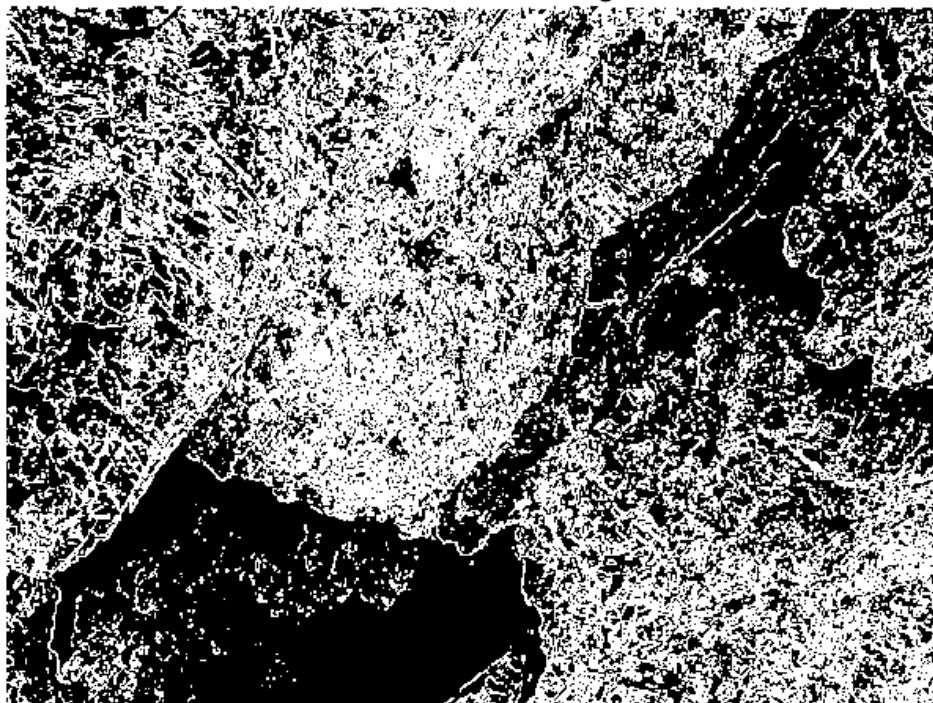
**Fig. Ccc**

**Dilated Gradient Mask**



**Fig. Ccd**

**Bilateral Filtered Image**



**Fig. Cce**

**Original Image**



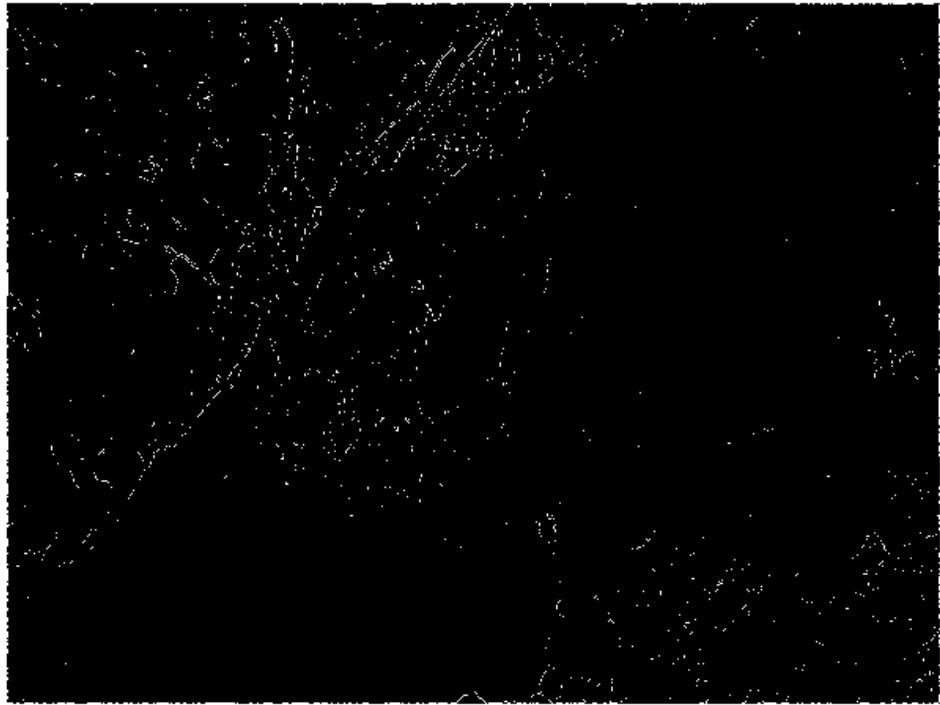
**Fig. Dca**

**Gray Image**



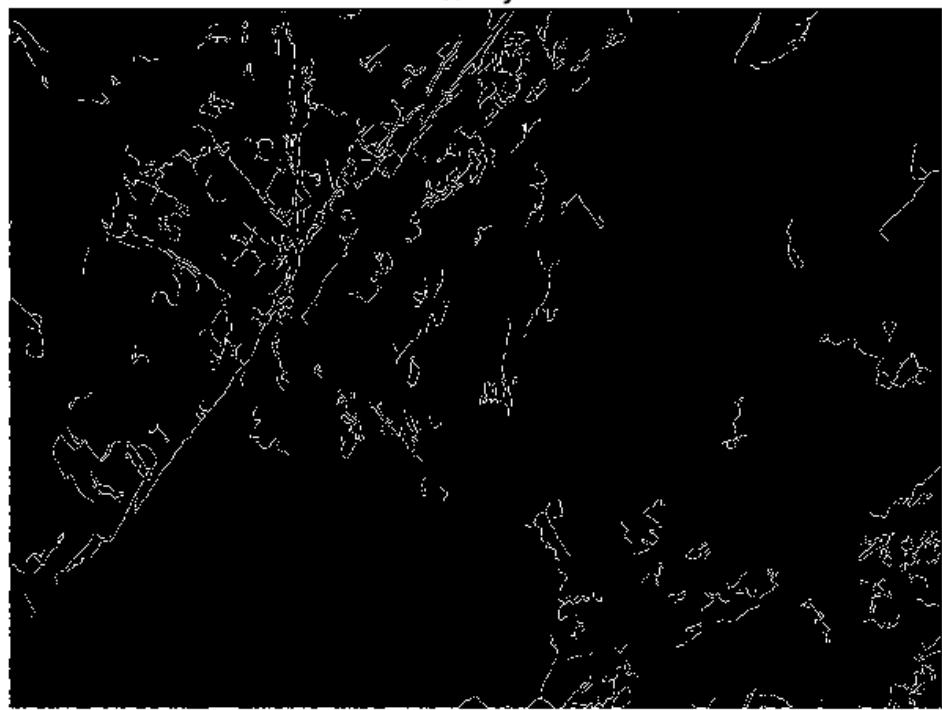
**Fig. Dcb**

**Sobel**



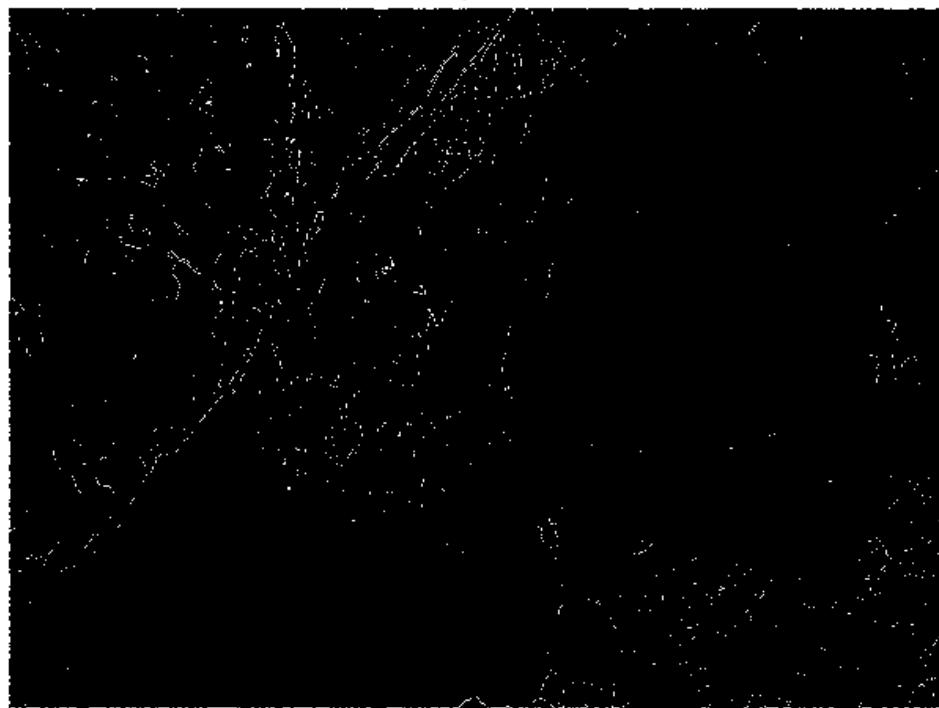
**Fig. Dcc**

**Canny**



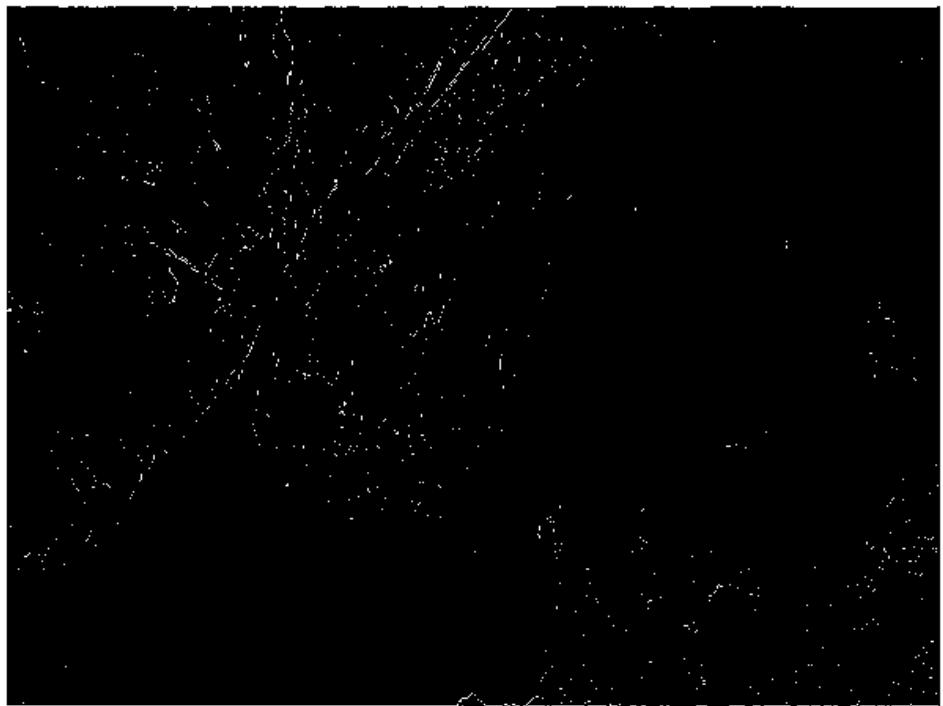
**Fig. Dcd**

**Prewitt**

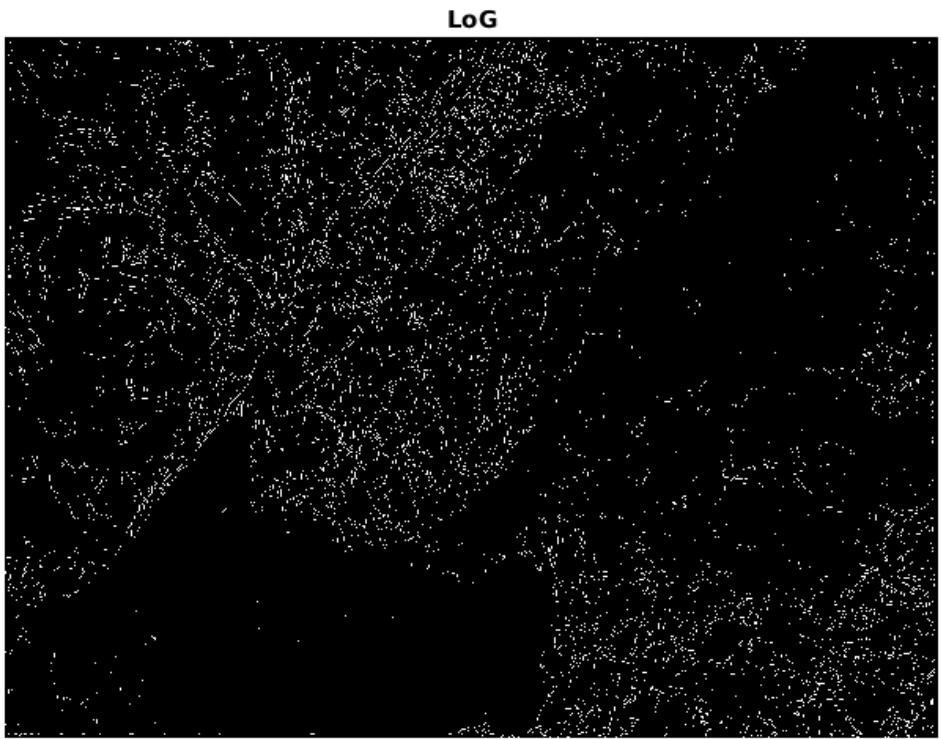


**Fig. Dce**

**Roberts**

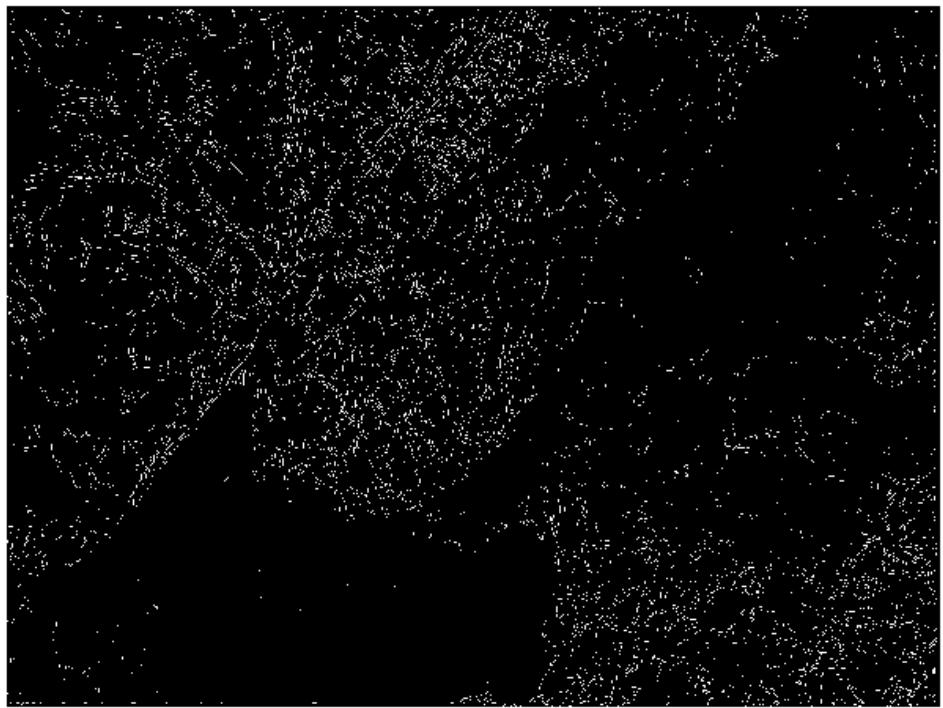


**Fig. Dcf**



**Fig. Dcg**

**Zerocross**



**Fig. Dch**