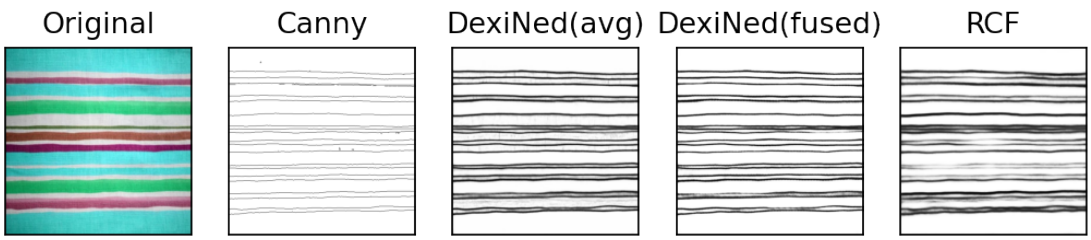
EdgeDetectionAnalysis

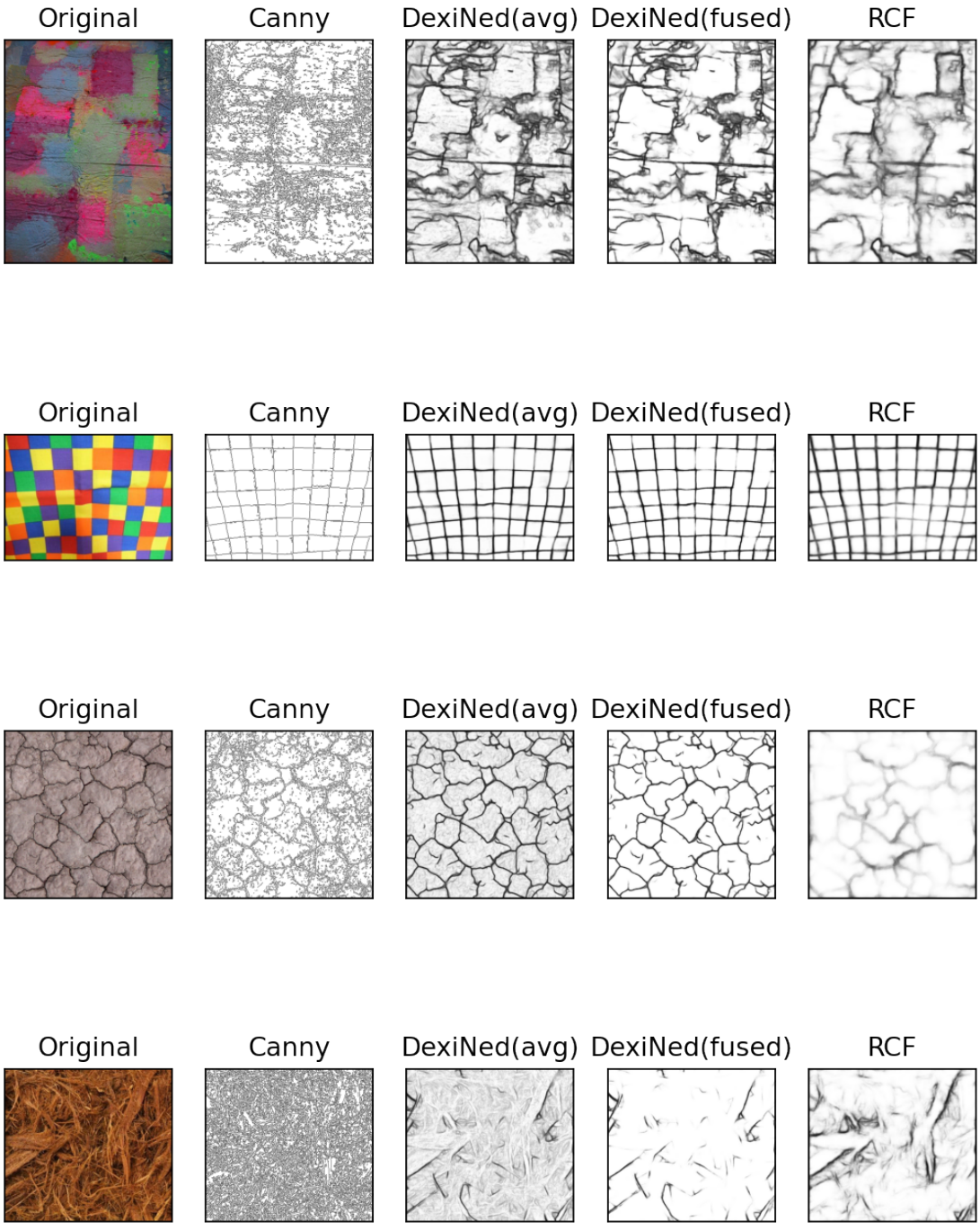
June 11, 2021

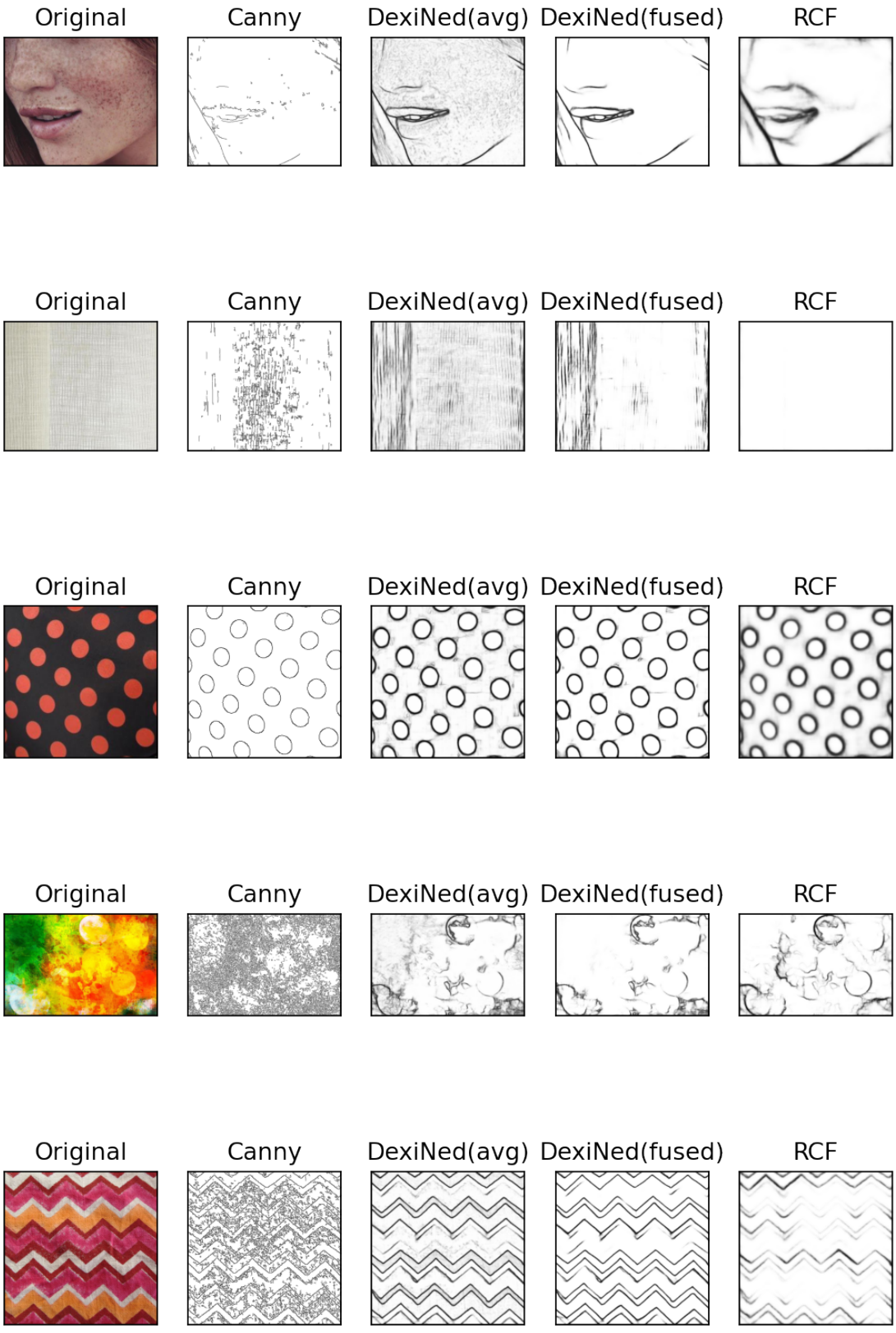
1 Edge Detection

[21]:
```
import numpy as np
import cv2 as cv
from matplotlib import pyplot as plt
from matplotlib.pyplot import figure
import os

folder = 'sample'
for filename in os.listdir(folder):
    figure(figsize=(8, 6), dpi=160)
    img_original = cv.imread(folder+'/'+filename)
    img_original = cv.cvtColor(img_original, cv.COLOR_BGR2RGB)
    img_canny = cv.Canny(img_original,100,200)
    img_Dexined_avg = cv.imread('results/DexiNed/avg/'+filename[:-4]+'.png')
    img_Dexined_fused = cv.imread('results/DexiNed/fused/'+filename[:-4]+'.png')
    img_RCF = cv.imread('results/RCF/'+filename[:-4]+'.png')
    plt.subplot(151),plt.imshow(img_original)
    plt.title('Original'), plt.xticks([]), plt.yticks([])
    plt.subplot(152),plt.imshow(255 - img_canny,cmap = 'gray')
    plt.title('Canny'), plt.xticks([]), plt.yticks([])
    plt.subplot(153),plt.imshow(img_Dexined_avg,cmap = 'gray')
    plt.title('DexiNed(avg)'), plt.xticks([]), plt.yticks([])
    plt.subplot(154),plt.imshow(img_Dexined_fused,cmap = 'gray')
    plt.title('DexiNed(fused)'), plt.xticks([]), plt.yticks([])
    plt.subplot(155),plt.imshow(255-img_RCF,cmap = 'gray')
    plt.title('RCF'), plt.xticks([]), plt.yticks([])
    plt.show()
    plt.close()
```




Original
Canny
DexiNed(avg)
DexiNed(fused)
RCF
Original
Canny
DexiNed(avg)
DexiNed(fused)
RCF
Original
Canny
DexiNed(avg)
DexiNed(fused)
RCF
Original
Canny
DexiNed(avg)
DexiNed(fused)
RCF


Original
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RCF
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