First Derivative, Second Derivative & Canny Algorithm

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originalImage = imread('D:\child.jpeg');

figure;

imshow(originalImage);

firstDerivative = edge(originalImage, 'prewitt');

figure;

imshow(firstDerivative);

secondDerivative = edge(originalImage, 'log');

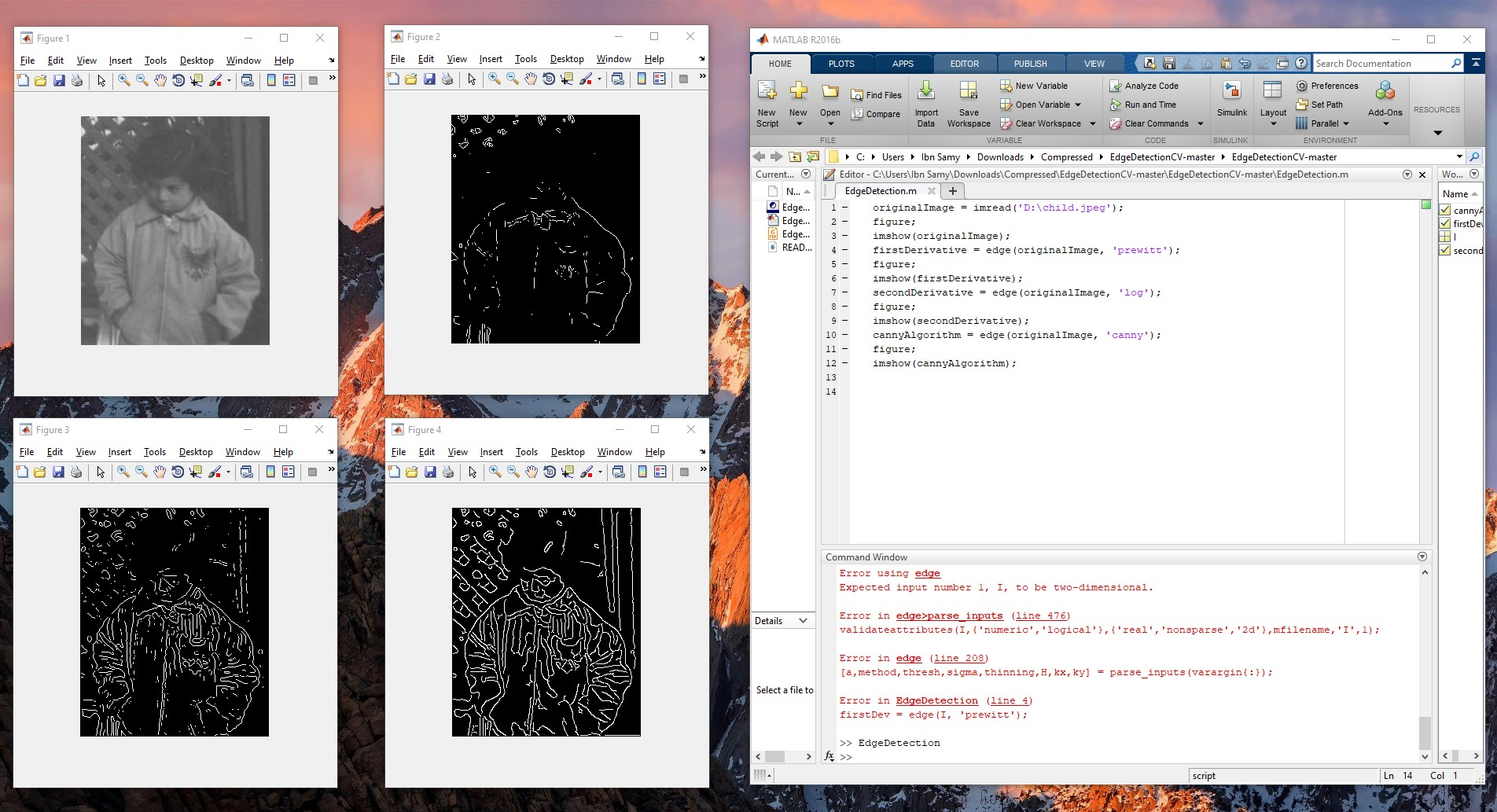
figure;

imshow(secondDerivative);

cannyAlgorithm = edge(originalImage, 'canny');

figure;

imshow(cannyAlgorithm);



It’s obvious that canny algorithm (figure4) did better job and presented the best edges.