Toonify : Cartoon Photo Effect Application

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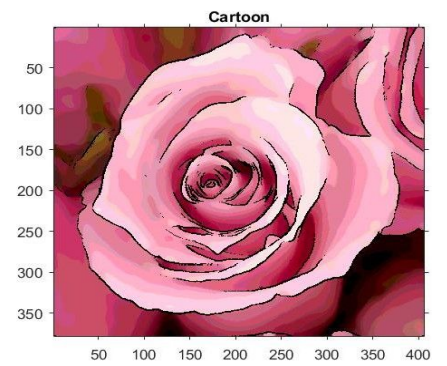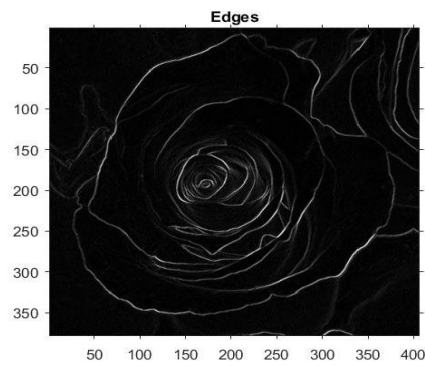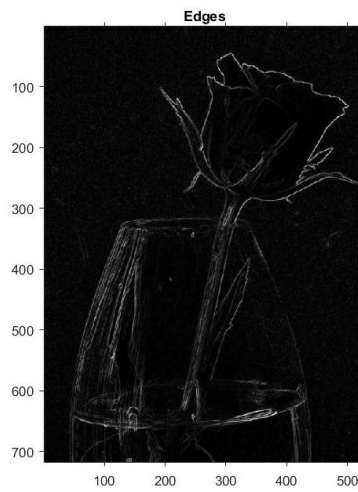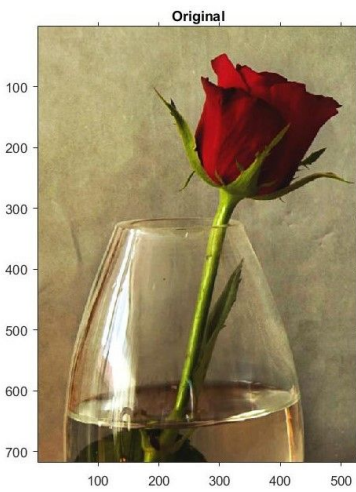170070011 - Parth vinod Patil

Goal

To produce a toonified version of the given Image.

Algorithm

1. First apply median filter to remove salt and pepper noise from the image.
2. Apply Bilateral Filter on the image to smoothen the image.
3. Apply edge detection technique to get the edge mask.
4. Combine the two effects by boldening the edges in the smooth image.
5. Apply quantisation of colors to get the cartoon effect finally.

Results:

Original   Edges   Cartoon

Original   Edges   Cartoon

Evaluation:

As with any algorithm that seeks to meet an aesthetic goal, measuring the success of Toonify poses some difficult problems. Specific goals throughout the process were to achieve solid continuous contours while avoiding small line clutter in the image, and also to achieve large regions of homogenous color, with a reduced color palette.