Deep Restore

Inpainting Comparision

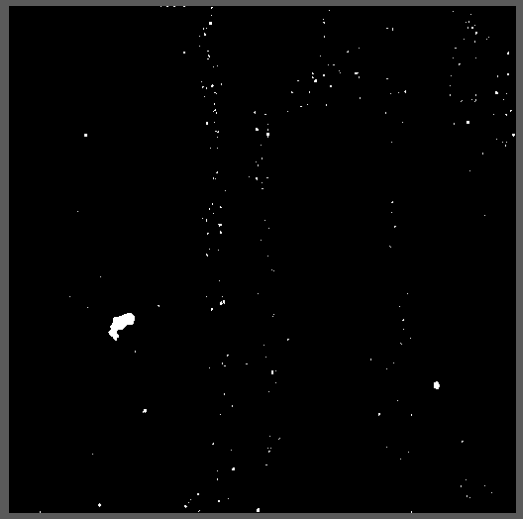
November 11, 2018

Description

- Comparison of 2 CNN approaches + 1 Perona-Malik architecture
- The two CNN approaches (Densenet and Densenet comb) were trained on a single channel to result in a single channel image. We train on R, G and B channel, so we have more training data. Also the loss was just calculated on masked pixels.

Test - Ex1

(a) Input



(b) Mask

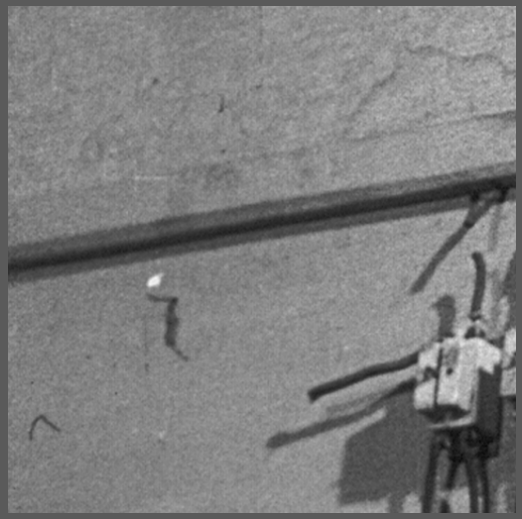
(c) GT Output

(a) Densenet

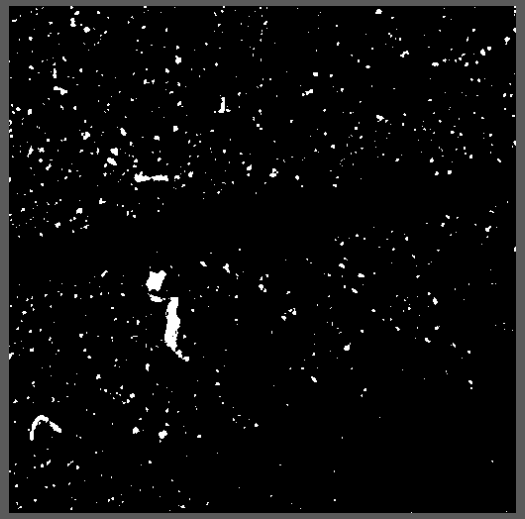
(b) Densenet c

(c) Perona-Malik

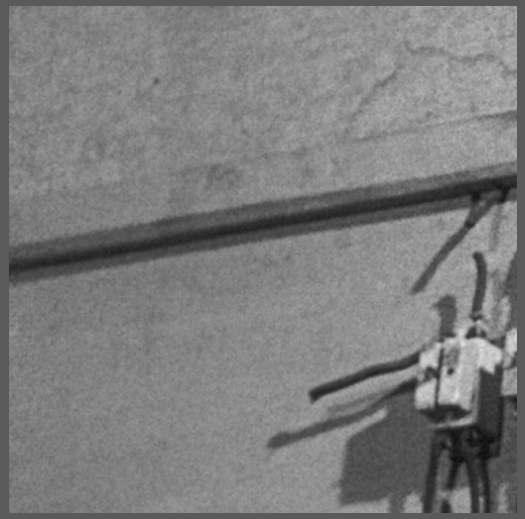
Test - Ex2



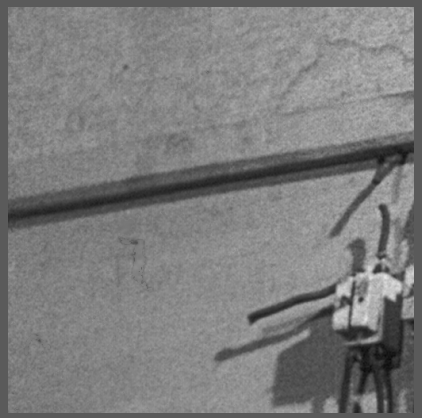
(a) Input



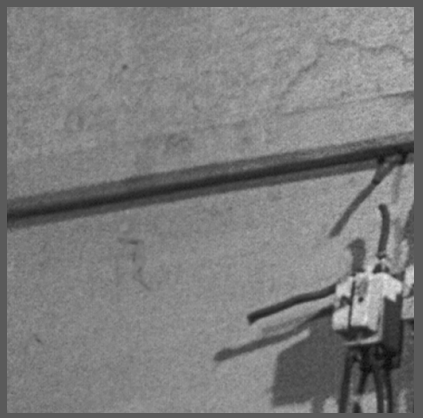
(b) Mask



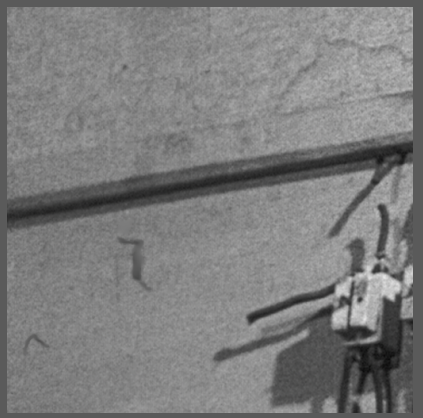
(c) GT Output



(a) Densenet



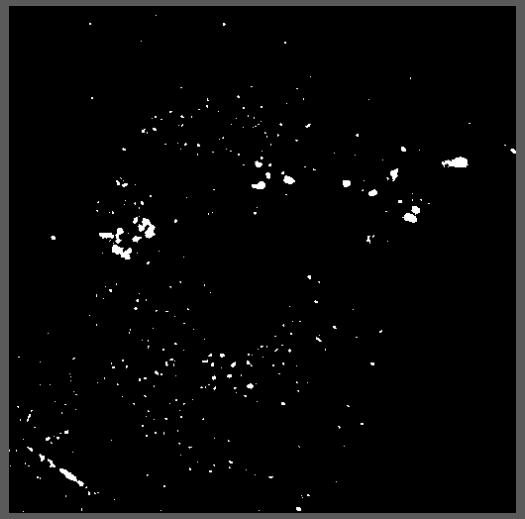
(b) Densenet c



(c) Perona-Malik

Test - Ex3

(a) Input



(b) Mask

(c) GT Output

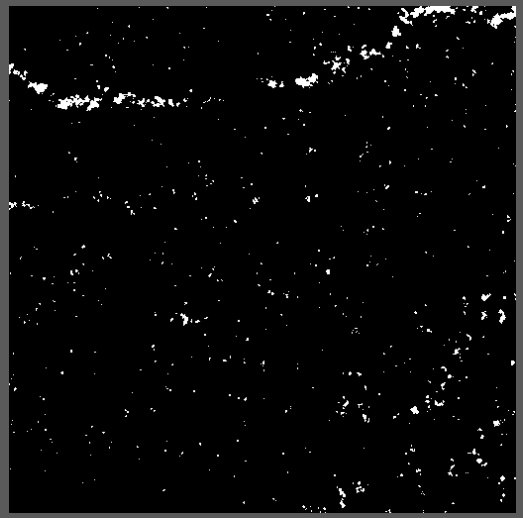
(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex4

(a) Input



(b) Mask

(c) GT Output

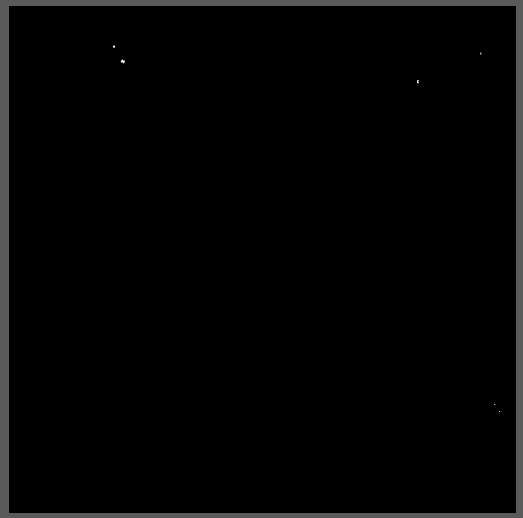
(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex5

(a) Input



(b) Mask

(c) GT Output

(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex6

(a) Input

(b) Mask

(c) GT Output

(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex7

(a) Input

(b) Mask

(c) GT Output

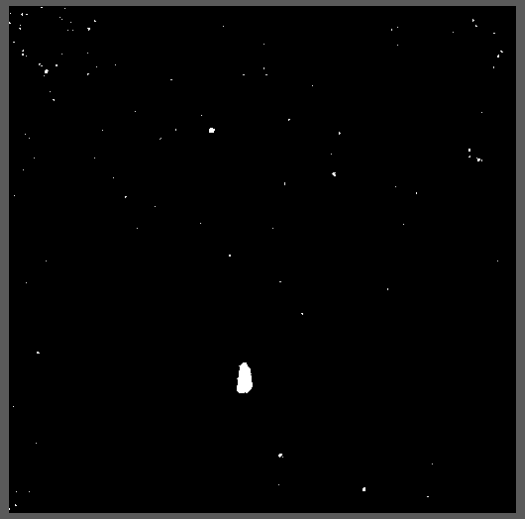
(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex8

(a) Input



(b) Mask

(c) GT Output

(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex9

(a) Input

(b) Mask

(c) GT Output

(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex10

(a) Input

(b) Mask

(c) GT Output

(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex11

(a) Input

(b) Mask

(c) GT Output

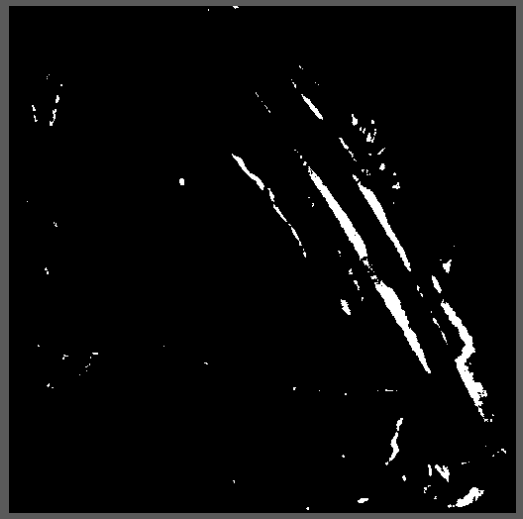
(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex12

(a) Input



(b) Mask

(c) GT Output

(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex13

(a) Input

(b) Mask

(c) GT Output

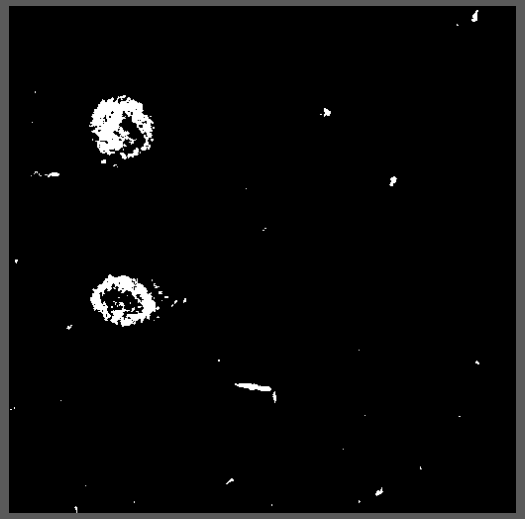
(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex14

(a) Input



(b) Mask

(c) GT Output

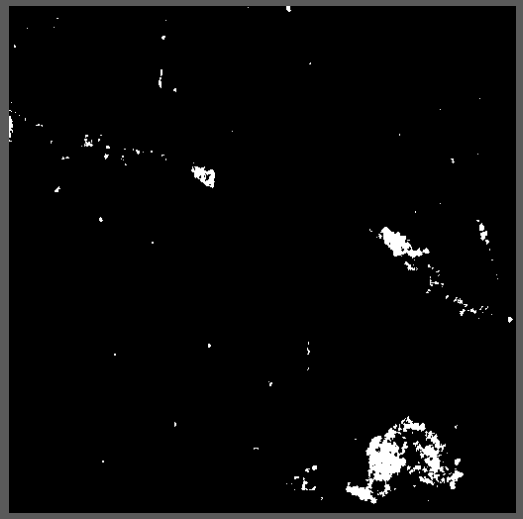
(a) Densenet

(b) Densenet c

(c) Perona-Malik

Test - Ex15

(a) Input



(b) Mask

(c) GT Output

(a) Densenet

(b) Densenet c

(c) Perona-Malik