CV HW10

b10902037 Yu Xiang Luo

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1 Method and Kernel

1. Laplace Mask1

	1	
1	-4	1
	1	

2. Laplace Mask2

1	1	1
1	-8	1
1	1	1

3. Minimum Variance Laplace

2	-1	2
-1	-4	-1
2	-1	2

4. Laplace of Gaussian

$$LoG()LoG(x,y) = -\frac{1}{\pi\sigma^4}[1 - \frac{x^2+y^2}{2\sigma^2}]e^{-\frac{x^2+y^2}{2\sigma^2}}$$

5. Difference of Gaussian

$$DoG(x,y,\sigma_1,\sigma_2) = G(x,y,\sigma_1) - G(x,y,\sigma_2)$$

G is the Gaussian blurs

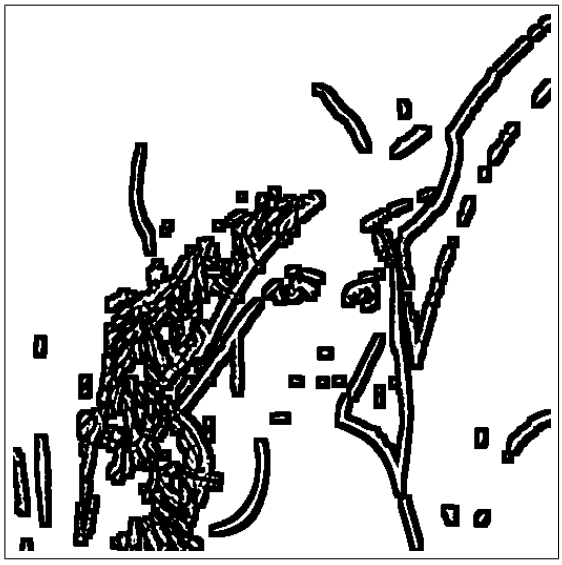
2 Results

(a) Laplace Mask 1

(b) Laplace Mask 2

(c) Minimum Variance Laplace

(a) Laplace of Gaussian



(b) Difference of Gaussian