

Deep Restore

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Description

- ▶ Different Parameters:
 - ▶ alpha α : used for estimating the eigenvalues of the diffusion tensor
 - ▶ gamma γ : used for a function similar to edge stopping function
 - ▶ tau τ : time step
 - ▶ end time: end time
 - ▶ sigma g σ_g : used for Gaussian smoothing of the image added with noise
 - ▶ sigma t σ_t : used for Gaussian smoothing of the strucure tensor

Tested Version

- ▶ Version 1:
 - ▶ α : 0.005
 - ▶ γ : 0.001
 - ▶ τ : 5
 - ▶ end time: 15
 - ▶ σ_g : 0.7
 - ▶ σ_t : 1.5
- ▶ Version 2:
 - ▶ α : 0.0005
 - ▶ γ : 0.0001
 - ▶ τ : 5
 - ▶ end time: 100
 - ▶ σ_g : 1.0
 - ▶ σ_t : 0.5

Tested Version

- ▶ Version 3:
 - ▶ α : 0.05
 - ▶ γ : 0.01
 - ▶ τ : 5
 - ▶ end time: 100
 - ▶ σ_g : 0.7
 - ▶ σ_t : 1.5
- ▶ Version 4:
 - ▶ α : 0.05
 - ▶ γ : 0.01
 - ▶ τ : 5
 - ▶ end time: 15
 - ▶ σ_g : 1.0
 - ▶ σ_t : 0.5

Ex1



(a) Input



(b) Mask



(c) GT



(a) Version 1



(b) Version 2



(c) Version 3

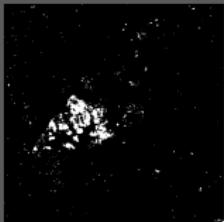


(d) Version 4

Ex2



(a) Input



(b) Mask



(c) GT



(a) Version 1



(b) Version 2



(c) Version 3



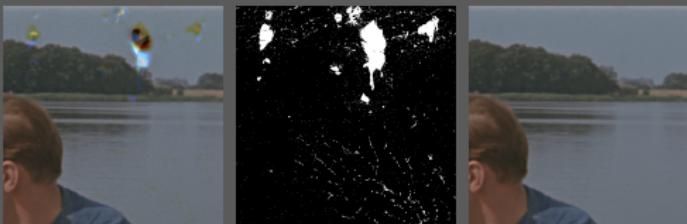
(d) Version 4

Ex3



(a) Version 1 (b) Version 2 (c) Version 3 (d) Version 4

Ex4



(a) Input

(b) Mask

(c) GT



(a) Version 1

(b) Version 2

(c) Version 3

(d) Version 4

Ex5

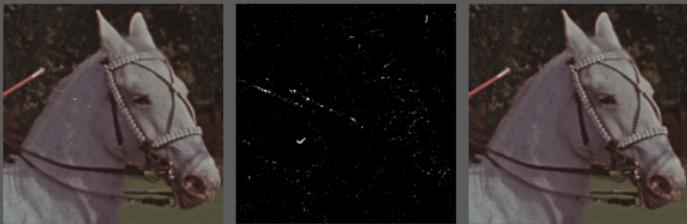


(a) Input (b) Mask (c) GT



(a) Version 1 (b) Version 2 (c) Version 3 (d) Version 4

Ex6



(a) Input

(b) Mask

(c) GT



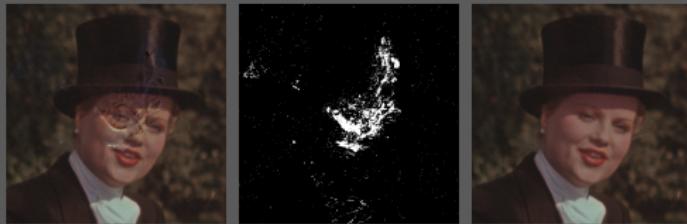
(a) Version 1

(b) Version 2

(c) Version 3

(d) Version 4

Ex7

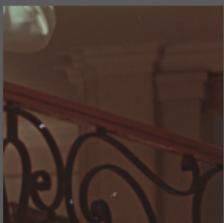


(a) Input (b) Mask (c) GT



(a) Version 1 (b) Version 2 (c) Version 3 (d) Version 4

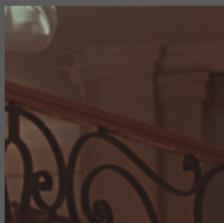
Ex8



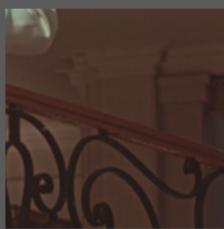
(a) Input



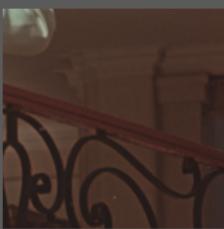
(b) Mask



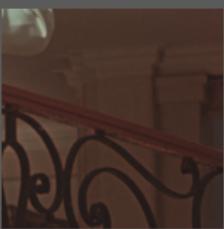
(c) GT



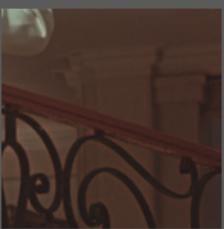
(a) Version 1



(b) Version 2



(c) Version 3



(d) Version 4

Ex9

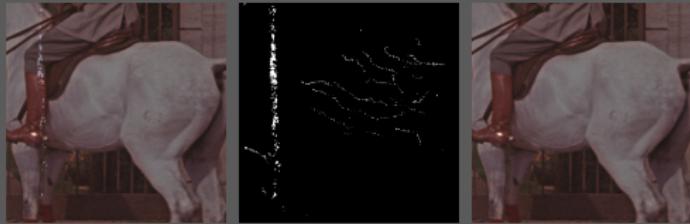


(a) Input (b) Mask (c) GT



(a) Version 1 (b) Version 2 (c) Version 3 (d) Version 4

Ex10



(a) Input

(b) Mask

(c) GT



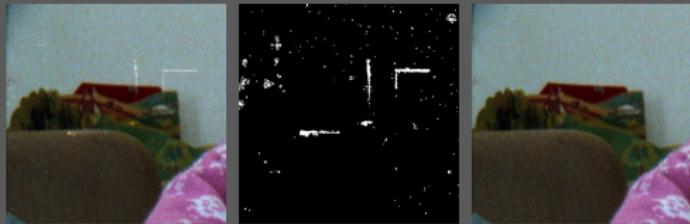
(a) Version 1

(b) Version 2

(c) Version 3

(d) Version 4

Ex11



(a) Input

(b) Mask

(c) GT



(a) Version 1

(b) Version 2

(c) Version 3

(d) Version 4

Ex12



(a) Input

(b) Mask

(c) GT



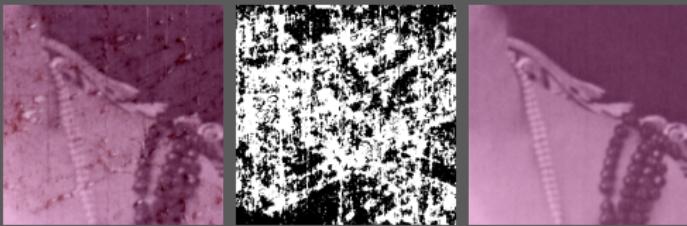
(a) Version 1

(b) Version 2

(c) Version 3

(d) Version 4

Ex13

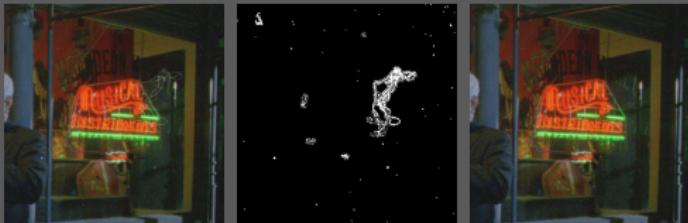


(a) Input (b) Mask (c) GT



(a) Version 1 (b) Version 2 (c) Version 3 (d) Version 4

Ex14

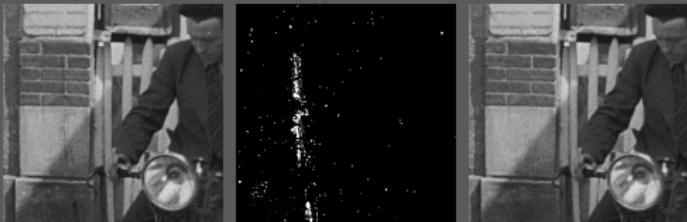


(a) Input (b) Mask (c) GT



(a) Version 1 (b) Version 2 (c) Version 3 (d) Version 4

Ex15



(a) Input

(b) Mask

(c) GT



(a) Version 1

(b) Version 2

(c) Version 3

(d) Version 4