CSE 5524 HW3

Name: Neng Shi

1)

Input Image:

Output Image:

Gaussian pyramid:

Laplacian pyramid:

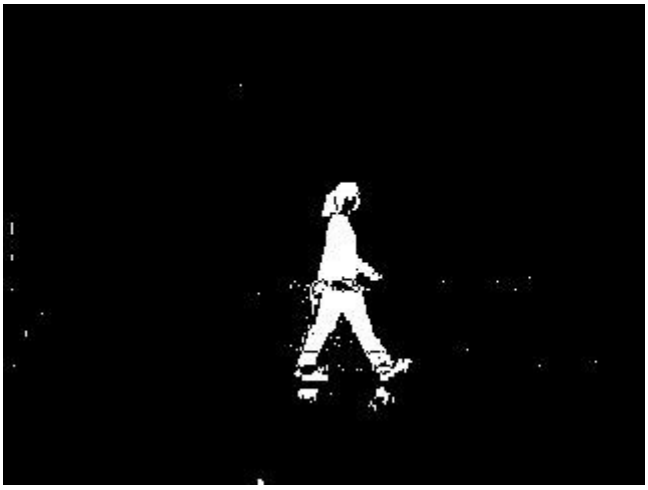
Reconstructed Image:

2)

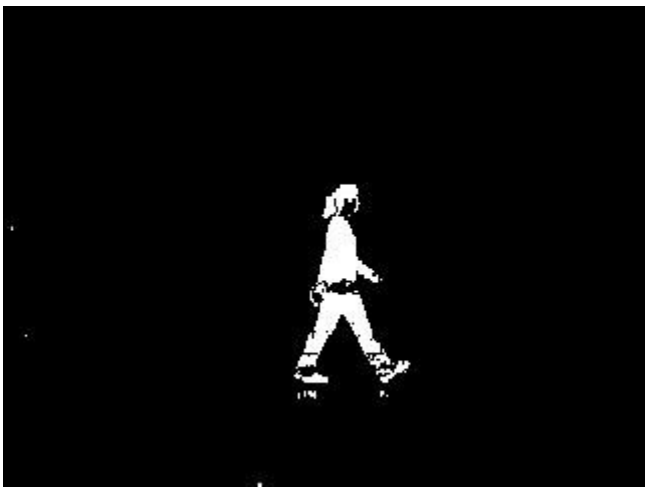
Output Image:

T=20:

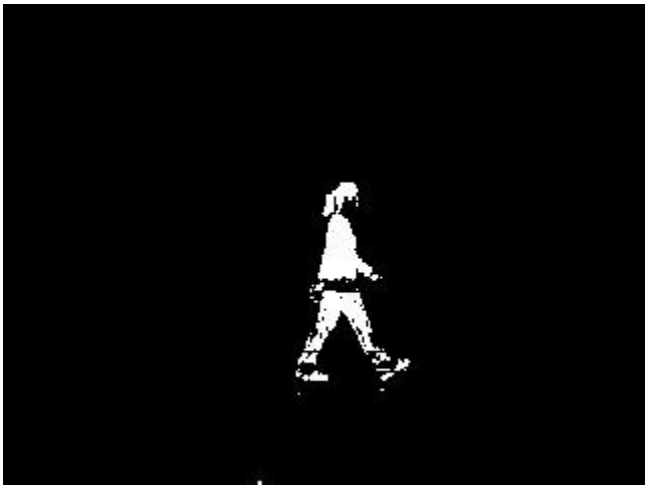
T=40:



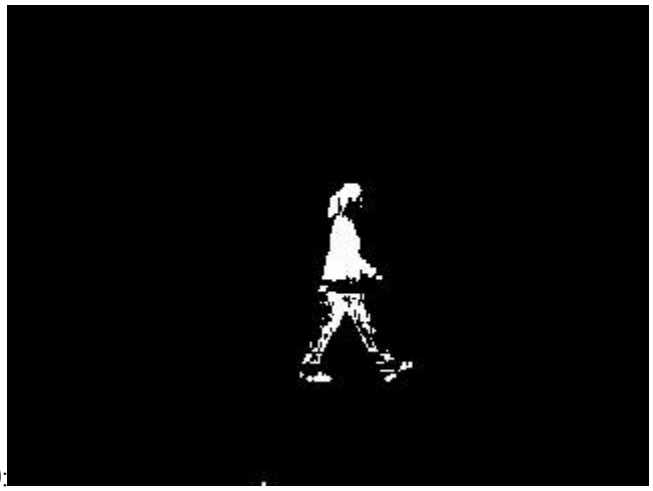
T=60:



T=80:



T=100:



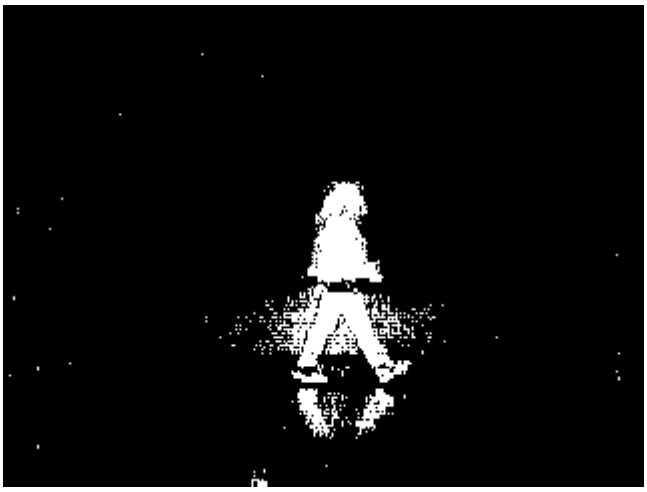
Discussion:

When T is too small, the extracted object has too much noise; and when T is too large, we miss some parts in the extracted object. We think T=60 gives us the best extraction. However, the face and the haunch are not extracted well because their colors are similar to the background.

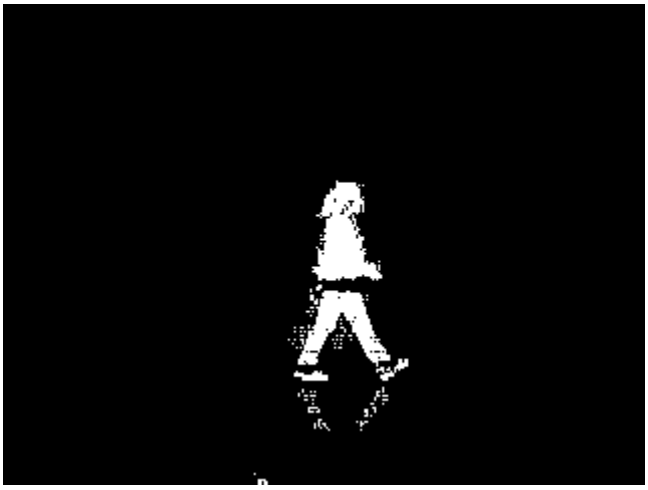
3)

Output Image:

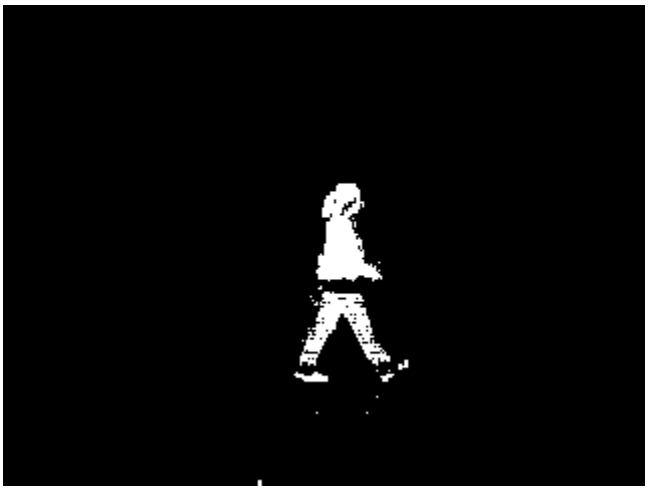
T=6:

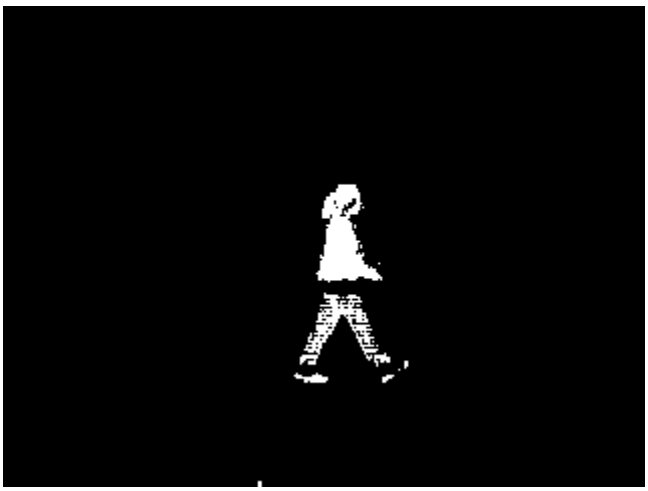


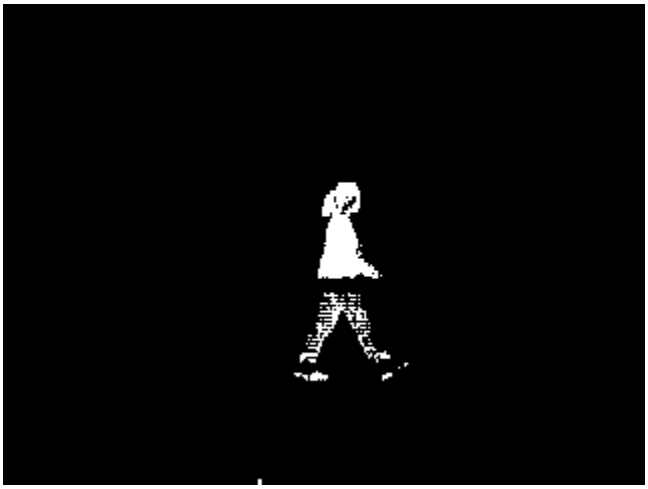
T=12:



T=18:



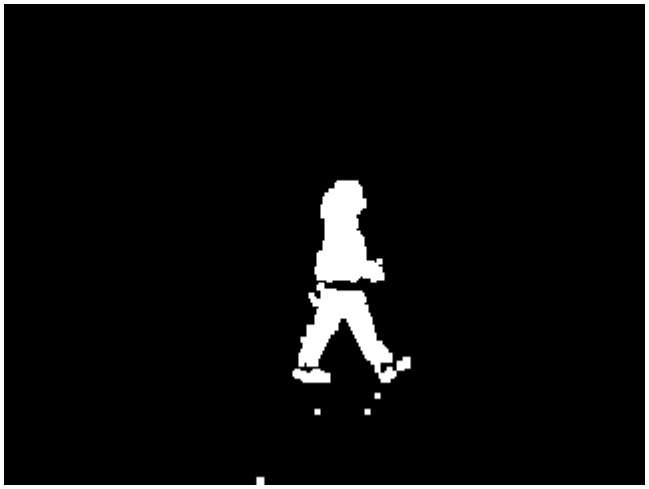
T=24: 

T=30: 

Discussion:
The same as Task 2, when T is too small, the extracted object has too much noise; and when T is too large, we miss some parts in the extracted object. We think T=18 gives us the best extraction. By using using statistical distances, the face is extracted better than before. However, the haunch is still extracted well.

4)

Output Image:



5)

Output Image: