[Type text]

Henry Hsiao (hjh63/utaustin)

Problem Set 1-file2

5) original seals

system resized 

[Type text]

Henry Hsiao (hjh63/utaustin)

Left is imresize from MatLab, it's weird because the system resized seems to be better in this case (sharper).

The original dimension is 500x375, and resized dimension is 375x250.

Seams was removed sequentially from X to Y (alternating)

Left is resize using seam. As you can see the sky, sea above the levy, sands between the seals, were all target for removal. This is again because we used the energy function base on derivative, or changes in pixel color (or more vaguely, the pixel activities).

Henry Hsiao (hjh63/utaustin)

Original

System

Henry Hsiao (hjh63/utaustin)


Matlab IMResize


Matlab Seams, the resize seems sharper, but you can identify clear distortion (specifically the trees at the right hand of the picture is ... literally gone). The shadows vs light seems to be picked up as "activities" and hence was not removed. Really in this situation we should cut away the land / river equally at same rate. Original was 500x375, resized to 375x250.

[Type text]

Henry Hsiao (hjh63/utaustin)

Grocery

Grocery is interesting one, mainly because none of the radical method seems to work very well.

System resize

Henry Hsiao (hjh63/utaustin)


Matlab imresize


This is a good example of terrible resize. Basically the aisle is taken as "lease activity" and removed. This is a case where condensing by cutting away seams, is just bad idea. Original was 500x375, resized to 375x250.

Henry Hsiao (hjh63/utaustin)

Original picture seems to indicate good resizing.

System.

Henry Hsiao (hjh63/utaustin)


Matlab imresize


This one is actually an awesome example of "GOOD" background resizing. But terrible for the person. If weighted function for the minimum density graph is implemented, this would be awesome example of resizing. Original is 600x450, resized to 400x250.

Henry Hsiao (hjh63/utaustin)


Original, 453x317

System Resize 

Here we see clearly needs for weight function to prevent human from being distorted. Resized to 336x200.

Matlab imresize

Seam Resizing

[Type text]

Henry Hsiao (hjh63/utaustin)

Original AION wallpaper.

System Resize

[Type text]

Henry Hsiao (hjh63/utaustin)

Matlab imresize

This is a very good result in my own opinion. Other than the staff being "bent" everything else seems to be in place. Dimension was 500x375 changed to 375x250.

-- ALL IMAGE TAKEN FROM GOOGLE IMAGE--