Segmentation

Image 1 (I₁) Image 2 (I₂)

Segment - K-means to segment the image in *color* and *position* space

I₁

GridSegmentation

Computes initial segmentation

segment - 1D array
size = [width*height]
Stores the segment assignment for each pixel

I₁

ComputeSegmentMeans

Compute the mean color and position for each segment

meanSpatial[2] and **meanColor**[3]
size = number of segments
Store the segment's mean position and color

I₁

AssignPixelsToSegments

Assign each pixel to the closest segment using position and color

Updated segment - 1D array
size = [width*height]

SegmentAverageMatchCost

Average the match cost for each pixel in a segment.

Updated matchCost - 1D array

I₁

SSD

I₂

matchCost - 1D array

FindBestDisparity