

 POLITECNICO DI MILANO



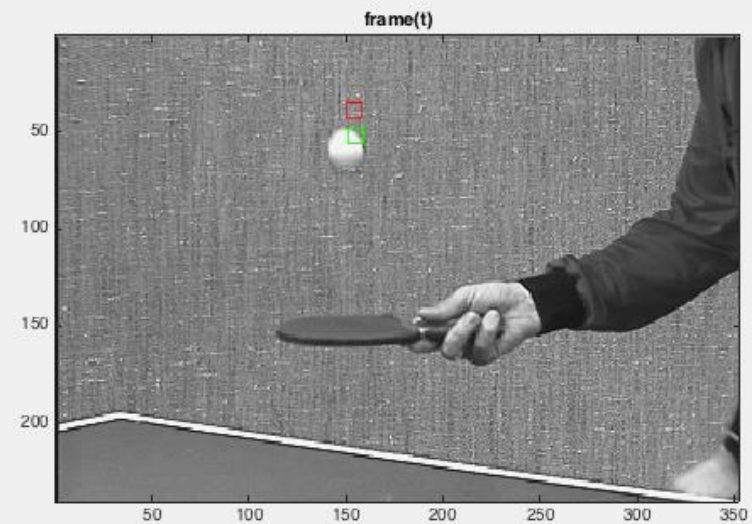
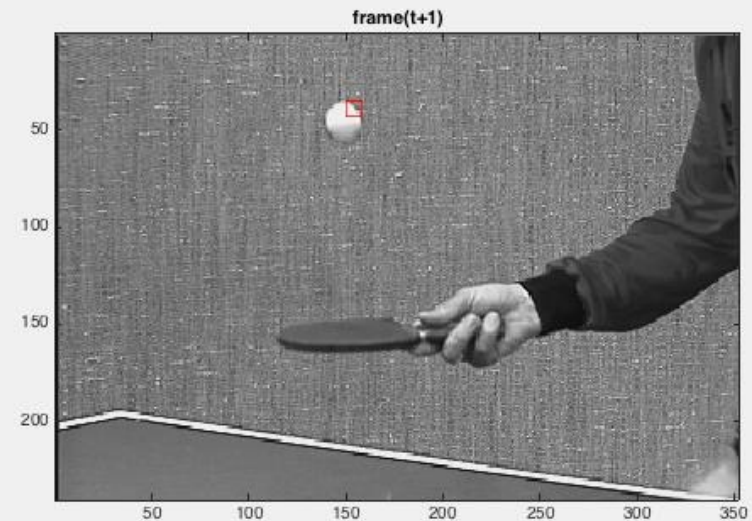
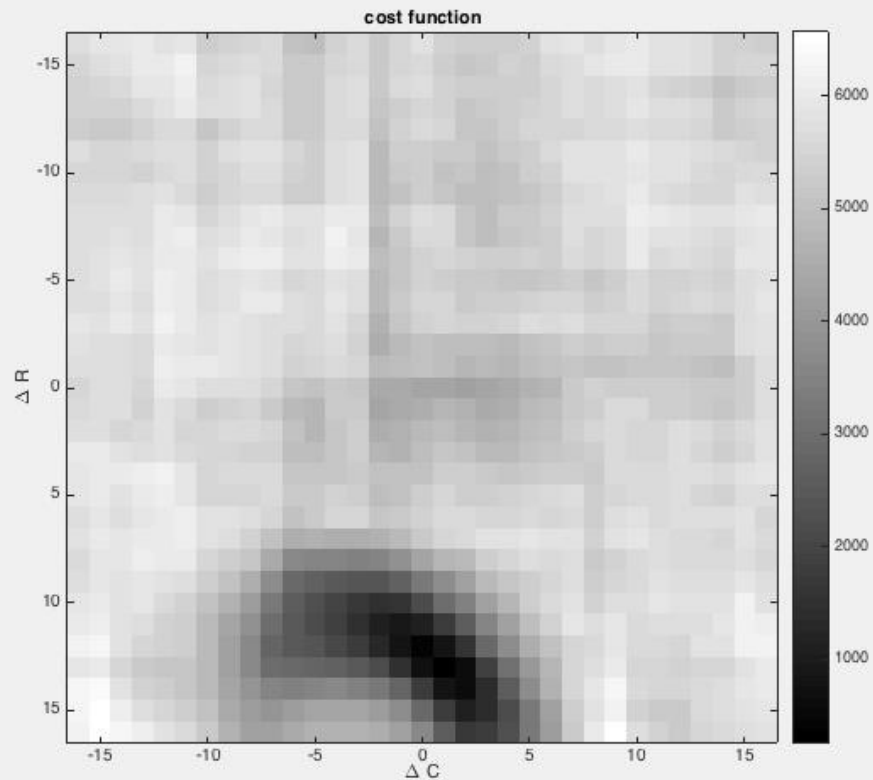
MMSP 2nd Module – Lab6

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Single block ME

EXERCISE 1

1. Load the sequence 'table_tennis.mat' consisting of two grayscale frames
2. Select the 8x8 block starting at (x,y)=(35,150) of the second frame. Perform ME using W=16 pixels and the first frame as reference
3. Display the cost function, the starting block and its estimate



ME, MC and DFD

EXERCISE 2

1. Load the sequence 'table_tennis.mat' and spatially resize it at half the resolution
2. Compute the displaced frame difference - use 8x8 blocks, full-search, $W=16$, save all motion vectors and visualize them
3. Compute mean and variance of DFD and normal frame difference
4. Display DFD and frame difference

1. `imresize()` can be used to downsample the sequence
2. `quiver()` can be used to draw vectors

