CSE 573: Programming Assignment 2

Name: Sokhey, Harshdeep , UB#50247213

July 11, 2018

1 Solution 1

1.1 Part 1 & 2

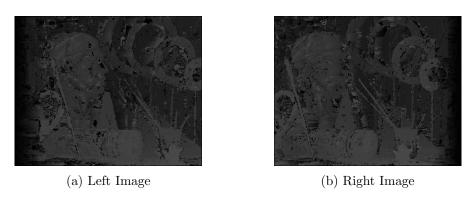


Figure 1: Disparity Map using 3x3 block matching

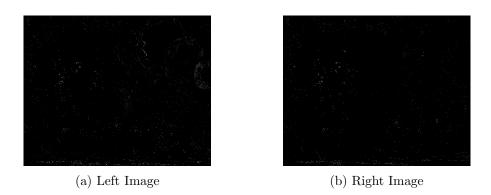


Figure 2: Consistency Check on 3x3 block matching

MSE 3x3 (Left)	372.9793
MSE 3x3 (Right)	252.8049
MSE 3x3 (Left) -Consistency Check	33.7245
MSE 3x3 (Right) -Consistency Check	25.9849

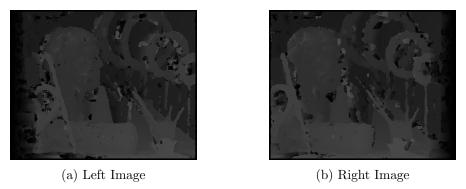


Figure 3: Disparity Map using 9x9 block matching

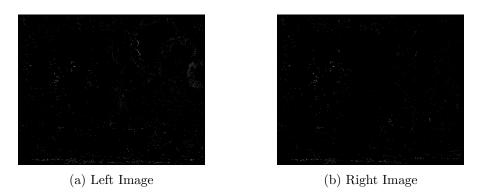


Figure 4: Consistency Check on 9x9 block matching

MSE 9x9 (Left)	292.4737
MSE 9x9 (Right)	292.4737
MSE 9x9 (Left) -Consistency Check	32.5168
MSE 9x9 (Right) -Consistency Check	25.0101

1.2 Part 3

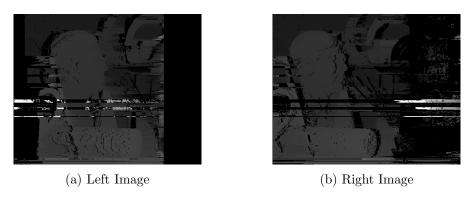


Figure 5: Block Matching using Dynamic Programming

1.3 Part 4



(a) After View1



(b) Final Result

Figure 6: View Synthesis

2 Solution 2

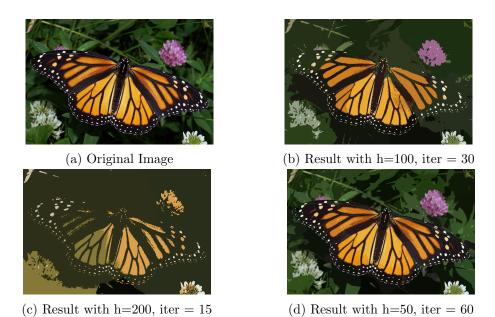


Figure 7: Mean Shift, (b) h = 100, iteration = 30, (c) h = 200, iteration = 15, (d) h = 50, iteration = 60