



Figure 4.34: All pixels are classified into four groups: B_1, B_2, B_3, B_4 . B_1 represents the boundary points being between the weld pool region and the background, marked in green. B_2 represents the boundary points being between the arc light region and the background, marked in blue. B_3 represents the boundary points being between the weld pool region and the arc light region, marked in red. B_4 represents the non-boundary points.