This is a general guide to use the code. More detail function explanations are disclosed in Appendix 7.2 in the final report.

**Our result function calls**

Image segmentation

1. GC\_GUI.m
2. data.m
3. createBoundaryMatrix.m
   * Parameters for input – none

Boundary optimization

1. loadPara.m

* Parameters for input - file names, paths, etc.

1. calCostLAB.m
   * Parameters for input - none
2. findShortestPath.m
   * Parameters for input - separate row, col, and end col.
3. createShortestPathMask.m
   * Parameters for input – none

Image blending

1. blendImage.m
   * 1 for user input mask;
   * 2 for optimal mask.
2. drawBoundaryOnTarget.m
   * 1 for user input mask;
   * 2 for optimal mask.
3. drawBoundaryOnSource.m
   * 1 for user input mask;
   * 2 for optimal mask.

**Drag and drop function calls**

Image segmentation

1. CG\_GUI.m
2. data.m
3. createBoundaryMatrix.m

Boundary optimization

1. loadPara.m

* Parameters for input - file names, paths, etc.

1. calCostRGB.m
   * Parameters for input - none.
2. *[SPECIAL]* - input the new parameters in findShortestPath.m
   * get the row and col of the costMatrix
3. rgbScript.m – drag and drop automation starts

* Parameters for input - max iterations.

Image blending

1. blendImage.m
   * 1 for user input mask;
   * 2 for optimal mask.
2. drawBoundaryOnTarget.m
   * 1 for user input mask;
   * 2 for optimal mask.
3. drawBoundaryOnSource.m
   * 1 for user input mask;
   * 2 for optimal mask.