

This document includes the functional parameters ( $\alpha$ ,  $\alpha^*$ , and  $b$ ) in the equation (5) in the paper.

$$f(\mathbf{x}) = \sum_{i=1}^l (\alpha_i - \alpha_i^*) K(\mathbf{x}_i, \mathbf{x}) + b \quad (\text{i.e., support vectors}) =$$

-32.0 \* k[1]  
 -9.05380642690796 \* k[6]  
 +32.0 \* k[8]  
 +32.0 \* k[13]  
 +32.0 \* k[14]  
 +32.0 \* k[20]  
 -11.225880157041875 \* k[21]  
 +32.0 \* k[26]  
 +1.6915200151659395 \* k[28]  
 +32.0 \* k[30]  
 -10.447845410146593 \* k[31]  
 +32.0 \* k[33]  
 +32.0 \* k[40]  
 +32.0 \* k[44]  
 -32.0 \* k[45]  
 -32.0 \* k[46]  
 -32.0 \* k[47]  
 -32.0 \* k[49]  
 -8.183304791070864 \* k[50]  
 -32.0 \* k[51]  
 -11.160697641731218 \* k[52]  
 +32.0 \* k[55]  
 +32.0 \* k[56]  
 +32.0 \* k[58]  
 +32.0 \* k[63]  
 -32.0 \* k[64]  
 -32.0 \* k[66]  
 -32.0 \* k[69]  
 +32.0 \* k[70]  
 +32.0 \* k[71]  
 -32.0 \* k[72]  
 -32.0 \* k[73]  
 +32.0 \* k[78]  
 +32.0 \* k[81]  
 +32.0 \* k[82]  
 -32.0 \* k[88]  
 +32.0 \* k[90]  
 -32.0 \* k[91]  
 +32.0 \* k[93]  
 -32.0 \* k[96]  
 +16.380014411732617 \* k[97]  
 +32.0 \* k[98]  
 -32.0 \* k[100]  
 -32.0 \* k[111]  
 -32.0 \* k[112]  
 -32.0 \* k[115]  
 -32.0 \* k[116]  
 -32.0 \* k[117]  
 + 0.4746

\* Note that these solutions were obtained using SRV with the full training dataset (i.e., 120 images).

\* The parameter values of ( $\varepsilon : 0.1$ ,  $C : 32$ , and  $\gamma : 1$ ) were the best in the grid search using cross validation.