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Subject: Does the ENVI\_SVM\_DOIT function have memory leak problem?

Posted by [Neve](#) on Fri, 28 Mar 2008 09:43:43 GMT

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Hi, all. I found that the ENVI\_SVM\_DOIT function may have memory leak problem. I used the "Help, /memory" command before and after the ENVI\_SVM\_DOIT function was called and found that certain amount memory lost, even if I remove the image to be classified and training ROIs. The size of the "lost" memory was different to either that of the image to be classified or that of the classification result.

It may not be a big issue if one just call the ENVI\_SVM\_DOIT function a few times, 'cause the size of "lost" memory is not large. My problem is that I need to repeatedly use the SVM classifier for around a thousand times, in which case the memory will finally be consumed and leads to error.

Could anybody tell me if I am using the ENVI\_SVM\_DOIT function in a wrong way or the function has memory leak problem? I also hope that someone from the ENVI team may see this and solve the problem if it turns out to be their problem. ; )

I attached my procedure below. The image I used is the one under the envi\data\ folder.

Pro test

```
ori_data_path = 'D:\bhtpref'
envi_open_file, ori_data_path, r_fid=ori_img_fid
envi_file_query, ori_img_fid, dims=ori_img_dims, nb=ori_img_nb
numFeatures = ori_img_nb
Feature_Subset = indgen(numFeatures)
Para_C = 100
Para_gamma = 1/numFeatures
out_name = 'D:\clsrst'
envi_restore_rois, 'D:\test.roi'
tr_roi_ids = envi_get_roi_ids(fid=fid)
help, /memory
print, '====='
; Call the svm classification doit routine, using the optimized
parameters
envi_doit, 'envi_svm_doit', $
fid=ori_img_fid, pos=Feature_Subset, dims=ori_img_dims, $
out_name=out_name, roi_ids=tr_roi_ids, $
penalty=Para_C, kernel_gamma= Para_gamma
help, /memory
; Remove the original image and training ROI IDS
envi_file_mng, id=ori_img_fid, /remove
help, /memory
```

envi\_delete\_rois, tr\_roi\_ids

End

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