Subject: ROI Data Retrival
Posted by moxament on Sat, 17 Jun 2017 08:23:13 GMT

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Dear all,

I am trying to write a code in which an ENVI format image with multi-bands is opened and the associated ROI file is restored. I want to get the data of each class from the image. I have three classes and for each class I want to create an array with number of columns equal to the number of bands and number of lines equal to the number of selected pixels of the ROI (class). My code looks like:

;Open and read the all-band file
ENVI_OPEN_FILE, Inputbands, R_FID = FID, NO_REALIZE = 1

;Read the header of the data image file
ENVI_FILE_QUERY, fid, ns = ns, nl = nl, nb = nb

; Restore the pre saved regions of interest.
envi_restore_rois, InputROI
roi_ids = envi_get_roi_ids(fid=fid, roi_colors=roi_colors, roi_names=class_names)

Result = ENVI_GET_ROI_DATA(roi_ids, FID=FID)

However, when I run the code I get the following error:

% Expression must be a scalar or 1 element array in this context: <BYTE   Array[3]>.
% Execution halted at: ENVI_ROI_ID_VALID 247
%   ENVI_GET_ROI_DATA 908
% $MAIN$

Can you please help? Your efforts are appreciated!!

Subject: Re: ROI Data Retrival
Posted by Markus Schmassmann on Mon, 19 Jun 2017 08:27:40 GMT

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On 06/17/2017 10:23 AM, moxament@gmail.com wrote:
> I am trying to write a code in which an ENVI format image with multi-bands is opened and the associated ROI file is restored. I want to get the data of each class from the image. I have three classes and for each class I want to create an array with number of columns equal to the number of bands and number of lines equal to the number of selected pixels of the ROI (class). My code looks like:
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> Can you please help? Your efforts are appreciated!!
As an educated guess, I'd say roi_ids is an array, but must be a
scalar or 1 element array. So you probably have to loop.   --Markus

Subject: Re: ROI Data Retrieval
Posted by moxament on Mon, 19 Jun 2017 18:52:54 GMT
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On Monday, 19 June 2017 04:27:42 UTC-4, Markus Schmassmann wrote:
> On 06/17/2017 10:23 AM, moxament@gmail.com wrote:
>> I am trying to write a code in which an ENVI format image with multi-bands is opened and the
associated ROI file is restored. I want to get the data of each class from the image. I have three
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>> ENVI_OPEN_FILE, Inputbands, R_FID = FID, NO_REALIZE = 1
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>> ;Read the header of the data image file
>> ENVI_FILE_QUERY, fid, ns = ns, nl = nl, nb = nb
>>
>> ; Restore the pre saved regions of interest.
>> envi_restore_rois, InputROI
>> roi_ids = envi_get_roi_ids(fid=fid, roi_colors=roi_colors, roi_names=class_names)
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>> Result = ENVI_GET_ROI_DATA(roi_ids, FID=FID)
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>> % Execution halted at: ENVI_ROI_ID_VALID 247
>> %   ENVI_GET_ROI_DATA 908
>> % $MAIN$
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>> Can you please help? Your efforts are appreciated!!
> As an educated guess, I'd say roi_ids is an array, but must be a
> scalar or 1 element array. So you probably have to loop.   --Markus

Hi Markus,

Thank you for your response. Yes, roi_ids is an array and I tried to run envi_get_roi_ids on one element (roi_ids[0] but still getting error). Any other suggestion would be appreciated.

Mohammed