Subject: DISP ROI GROW REGION Posted by Leonardo R. Sbaraini on Wed, 26 Mar 2008 15:31:45 GMT View Forum Message <> Reply to Message

Hello all.

Example of the problem:

I need to resize a ROI (oversample) obtained from image1 (100x100) and show it in image2 (200x200).

I had success in creating a tool to downsample the ROI (the inverse problem), but do oversample, the ROI is not exactly what I want, have somr borders problem.

Well, seeing the file "envi_all_functions.txt" that I dont know from where it cames, theres is method with a sintaxe:

DISP_ROI_GROW_REGION, p_data, /ASK, /GROUP, /REDO

I ask if someone had used this routine, and dont know how to initiate p_data.

Maybe I can help showing my code here (to oversample):

```
Growing for x axis
; x is a long array with the xaxis positions
 xSize = n_elements(x)
 xNewSize = xSize * intScaleFactor * intScaleFactor
 xNew = Ionarr(xNewSize)
 xNew[*] = -1
 currentXnewIndex = 0
 for xi=0, xSize-1 do begin
   numberToWrite = x[xi]
   ; The box side for every x
   for sfRepeater = 0, intScaleFactor-1 do begin
      The box side for current element of x (xi)
      for sfRepeaterNested = 0, intScaleFactor-1 do begin
```

```
; Verifying the image limit
           if numberToWrite It IngDestinationWidth then begin
              xNew[currentXnewIndex++] =
numberToWrite
            endif
         endfor
         numberToWrite++
       endfor
    endfor
    ; Removing invalid indexes
    goodIndex = where(xNew ne -1)
    if goodIndex[0] ne -1 then xNew = xNew[goodIndex]
    x = temporary(xNew)
```

Subject: Re: DISP_ROI_GROW_REGION Posted by Leonardo R. Sbaraini on Fri, 04 Apr 2008 11:14:47 GMT View Forum Message <> Reply to Message

It's me again.

The problem do not have a good solution because when you downsample an image you lost information and when you oversample an image you put wrong information. So, the roi indexes will never match exactly the coherence expected. The nearest solution is oversample/downsample and verify later where we can really withdraw data from modified indexes. (There must be exist a data value marker signing the no valid data)