
Subject: Getting ROI data from an image

Posted by [Rebecca](#) on Fri, 30 Sep 2011 17:50:06 GMT

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I need to extract hyperspectral data from an image ROI :

The project I'm working on requires me to code strictly with IDL, so I cannot use ENVI calls in the final product. I am running unsupervised classification (K-Means), which returns a classification image with each pixel assigned a number from [0,...nClasses]. I want to use the classification image to subset the image based on ROI and get the mean spectra from each class. The functionality I need is probably the same as `ENVI_GET_ROI_DATA()`. My exact question is, how can I use the one-dimensional calls to capture ROI data from the hypersepctral data?

```
samples = 320
```

```
lines = 1000
```

```
bands = 300
```

```
classes = 15
```

```
result = KMEANS(img, ITERATIONS = 4, NCLASSES = classes)
```

```
FOR i = 0, nClasses-1 DO BEGIN
```

```
  loc = WHERE(result EQ i, count)
```

```
  IF count EQ 0 THEN CONTINUE
```

```
  ; ?
```

```
  ; ?
```

```
ENDFOR
```
