
Subject: Re: Negative Variance?

Posted by anniebryant@gmail.com on Fri, 20 Mar 2009 01:47:47 GMT

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On Mar 19, 4:35 pm, "Jean H." <jghas...@DELTHIS.ucalgary.ANDTHIS.ca> wrote:

> anniebry...@gmail.com wrote:

>> On Mar 19, 4:08 pm, Paolo <pgri...@gmail.com> wrote:

>>> anniebry...@gmail.com wrote:

>>>> I am using the VARIANCE comand in IDL and am getting negative values.

>>>> The description in the HELP menu for IDL doesn't provide much

>>>> information, but from what I know, I thought variance was either an

>>>> absolute value or a deviation from a squared number, neither of which

>>>> could yield a negative value.

>>>> I am looking at the variance for 2 different bands in an AVIRIS

>>>> image. I use the same .pro, just change the band I am looking at.

>>>> The results for Band 1 (lets call it) make sense: all positive

>>>> values. For Band 2, I get a lot of negatives.?! How is this

>>>> possible.

>>>> These are the values for Band 1:

>>>> integer mean std dev minimum maximum n_elements

>>>> 2633.3 2059.3 0.0000 9367.0 (160686) =

>>>> 160686

>>>> These are the values for Band2:

>>>> integer mean std dev minimum maximum n_elements

>>>> 1167.5 18269. -32768. 32767. (160686) =

>>>> 160686

>>> I don't see any variance here. The only negative number is the

>>> minimum.

>

>>> Ciao,

>>> Paolo

>

>> Those are the values of the vector AFTER the variance was computed, it

>> should read Variance_Band1 and Variance_Band2.

>

> How can you get multiple variances for a band?

> Jean

I created a moving kernel inside which to calculate the variance. So the question is. What is the variance within a 17pixel x 17pixel moving window. That is what I am calculating the variance for.
