
Subject: Re: 2D Pearson correlation coefficient
Posted by [limiq](#) on Thu, 30 Jan 2014 18:12:13 GMT
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I wonder if someone have a suggestion about how to determine the w_i (weighting) factor.
Thanks,
Lim

On Thursday, January 30, 2014 9:43:54 AM UTC-5, Lim wrote:

> Dear all,
>
> I would like to ask if someone know a code to calculate a 2D Pearson correlation as:
>
>
>
>
$$r^2 = \frac{\sum w_i (M_i - M)(O_i - O)}{(\sum w_i (M_i - M)^2)(\sum w_i (O_i - O)^2)}$$

>
>
>
> Sum runs from $i=1$ to N . N is the total number of grid cells.
>
> M_i and O_i are the values in the grid cell i and w_i is a normalized weight (area) of grid cell i . $\sum w_i = 1$ (Sum from $i=1$ to N).
>
>
>
> IDL has `C_Correlate` and `R_correlate` but none of them include the w_i factor.
>
>
>
> I will appreciate any assistance.
>
>
>
> Lim
