
Subject: Re: vector t-test?

Posted by [mmiller3](#) on Mon, 03 Nov 2003 19:16:29 GMT

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>>>> > "wmc" == wmc <wmc@bas.ac.uk> writes:

> Can I do a t-test on vectors (I mean, where each data point
> is a 2-d vector)? `tm_test` says it works on reals; does it
> work on complex data?

No - a t-test compares the means of two populations. If you have multidimensional data, you can compare means along multiple axes. Those may not be orthogonal though (even if the axis are spatially orthogonal), so the results may not be independent.

To get a better measure of the difference between the two populations, take a look at various spatial statistics methods to find the "right" statistic for your use. I don't know what is available in IDL though...

Regards, Mike

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