
Subject: Re: Matrix rank

Posted by [d.poreh](#) on Fri, 14 Dec 2007 17:26:55 GMT

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On Dec 14, 5:28 pm, Vince Hradil <hrad...@yahoo.com> wrote:

> On Dec 14, 9:42 am, Wox <nom...@hotmail.com> wrote:

>

>

>

>

>

>> On Fri, 14 Dec 2007 06:35:11 -0800 (PST), Vince Hradil

>

>> <hrad...@yahoo.com> wrote:

>>> IDL can do SVD, can you get the rank from that? Look up SVDC in the
>>> docs.

>

>> I could do this, but maybe there's a better way?

>

>> ; A: integers

>> ; B: floats

>> A = [[0,0,1], \$

>> [0,1,0], \$

>> [0,0,0]]

>> B = [0.25,0.5,1]

>

>> ; Decompose A

>> SVDC, A, W, U, V

>> ; Solve A.X=B

>> X=SVSOL(U, W, V, B)

>

>> ; Check

>> B2=A##X

>> ind=where(total(abs(A),1,/pres) ne 0)

>

>> if array_equal(B[ind],B2[ind]) then print,X

>

> Well, w contains the singular values, the number of these that are non-
> zero will be the rank:

> idx = where(w ne 0, rank)

> print, rank

> 2

>

> Does anyone else read the Help?????- Hide quoted text -

>

> - Show quoted text -

Huuu!!! what about NORM?
