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:
>
>
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>
>
>> 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 -

Huuum!!! what about NORM?