
Subject: Re: Positive solution for linear equations
Posted by [Vince Hradil](#) on Sun, 12 Apr 2009 16:24:33 GMT
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On Apr 12, 6:53 am, erano <eran.o...@gmail.com> wrote:
> I am trying to find the solution for a series linear equations: $Ax = B$,
> where A is a n by m matrix and B is a vector .
> I use the IDL function SVDC but I wish the solution x to be positive
> vector.
> How can I do so?
> Thanks,
> Eran

What's a positive vector?

Subject: Re: Positive solution for linear equations
Posted by [David Fanning](#) on Sun, 12 Apr 2009 16:58:02 GMT
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Vince Hradil writes:

> What's a positive vector?

One that doesn't continuously nag about IDL's foibles. :-)

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Subject: Re: Positive solution for linear equations
Posted by [David Gell](#) on Mon, 13 Apr 2009 13:51:33 GMT
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On Apr 12, 6:53 am, erano <eran.o...@gmail.com> wrote:
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> where A is a n by m matrix and B is a vector .
> I use the IDL function SVDC but I wish the solution x to be positive
> vector.
> How can I do so?

> Thanks,
> Eran

Eran,

I assume that you wish each component of vector x is to be positive, so what you have is a linear programming problem. Try using the simplex method. For information on the simplex method, see Press, et.al. "Numerical Recipes".

Dave

Subject: Re: Positive solution for linear equations
Posted by [erano](#) on Tue, 14 Apr 2009 04:18:16 GMT
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On Apr 13, 4:51 pm, David Gell <david.g...@swri.org> wrote:
> On Apr 12, 6:53 am, erano <eran.o...@gmail.com> wrote:
>
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> I assume that you wish each component of vector x is to be positive,
> so what you have is a linear programming problem. Try using the
> simplex method. For information on the simplex method, see Press,
> et.al. "Numerical Recipes".
>
> Dave

Dear Dave,
It seems this is the solution for my problem.
Thanks a lot,
Eran