Subject: Re: Minimum area ellipse - quadratic optimisation?
Posted by jeyadev on Thu, 16 Feb 2006 20:11:27 GMT
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In article <1140099547.933485.155540@g43g2000cwa.googlegroups.com>,
Olivia <olivia.roberts@merton.ox.ac.uk> wrote:
> Dear All,
>
> My aim is to fit an ellipse with a known center onto a distribution of
> points, where all points have to be inside or on the ellipse, and the
> ellipse chosen is of the minimum area.
>
> ....
>
> I posted on this topic before, but it is important that my ellipse
> fitting method does not rely on convex hulls. I wrote a program which
^^

Is there a special reason for this?

> does fit ellipses to the point distributions, but not the ellipses with
> the minimum area.
>
> I am sure the problem can't be as hard as I am finding it, and I am
> feeling right now like drawing the 600 or so ellipses my program needs
> myself! Any suggestions really would be very helpful. Thanks,

Perhaps

http://geometryalgorithms.com/Archive/algorithm_0107/algorit hm_0107.htm

could be of some help
--

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The 1 in the email address is fake