
Subject: Re: Calculate maximum diameter?

Posted by [Jeff N.](#) on Mon, 06 Feb 2006 22:36:24 GMT

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Yep, it does need to go through the center. I may end up using a fitted ellipse as a starting point, so we'll just see what works best. Thanks for the ideas!

Jeff

kuyper@wizard.net wrote:

> Jeff N. wrote:

>> Hi folks,

>>

>> I have a set of roughly circular ROI's for which I want to compute the
>> maximum diameter - the longest straight line from one point on the
>> boundary of the ROI, through the center, to the opposing boundary.

>

> Is it essential that it go through the center? In many contexts its
> more useful to know the length of the longest straight line from any
> given vertex to any other vertex. There's a pretty obvious $O(N^2)$
> algorithm for finding that maximum distance.
