
Subject: Re: Calculate maximum diameter?

Posted by [James Kuyper](#) on Mon, 06 Feb 2006 15:41:43 GMT

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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.
