
Subject: Re: azimuthal median

Posted by [Wox](#) on Tue, 15 Jan 2008 09:48:12 GMT

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On Mon, 14 Jan 2008 14:22:10 +0100, Bringfried Stecklum

<stecklum@tls-tautenburg.de> wrote:

> Hi folks,
>
> I am looking for a faster way to compute the azimuthal median in
> dependence on radius than the brute-force method, i.e. getting the index
> of pixels within a certain annulus, and using median(image[idx]). Is
> this another case for the histogram wizards out there?
>
> regards,
>
> Bringfried

I'm not familiar azimuthal median but what about image warping:

; Make azimuthal range

a0=0.

a1=2*pi

ai=0.1

na=ceil((a1-a0)/ai)+1

ai=(a1-a0)/(na-1)

a=a0+ai*indgen(na)

; Make radial range

r0=10.

r1=20.

ri=0.1

nr=ceil((r1-r0)/ri)+1

ri=(r1-r0)/(nr-1)

r=r0+ri*indgen(nr)

; Radius and azimuth for warped image

r=rebin(r,nr,na,/sample)

a=rebin(transpose(a),nr,na,/sample)

; X and Y for warped image (xc,yc is center)

xmap=xc+r*cos(a)

ymap=yc+r*sin(a)

; Warped image

oimage=Interpolate(image,xmap,ymap,/cubic)

```
; Median  
m=median(oimage,dim=1)
```
