Subject: Re: Q: about Richardson Lucy Alg. (deconvolution) Posted by edward.s.meinel on Fri, 16 Jul 1999 07:00:00 GMT View Forum Message <> Reply to Message

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In article <7mlo5n$pps$1@sylvester.vcn.bc.ca>,
 "Herbert H. Tsang" <tsang@vcn.bc.ca> wrote:
> Anyone is familiar w/ the Richardson_Lucy Deconvolution alg.? I have
found
> a IDL program (lucy guess.pro) that claims to perform this
deconvolution.
> However, when examining the code I am not quite sure if it is correct.
in
> lucy_guess.pro line 89 it has this loop
 for k=0,n_iter do begin
     weight = convol(old,psfr)
     new = old * convol( (data/weight) ,psf)
>
     old = new
  endfor
> but shouldn't it be
       for k=0,n_iter do begin
>
         weight = convol(old,psfr,/edge_truncate)
>
          new = old * correlate( (data/weight) ,psf)
>
         old = new
>
       endfor
>
> Any idea??
```

You are correct about the correlation step: the inner operation is a convolution used to simulate the imaging process; the outer operation is a correlation. Whether to use /EDGE_TRUNCATE or not is up to the user.

Ed Meinel

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