Subject: Re: ratio imaging
Posted by Dan Larson on Tue, 12 Mar 2002 16:54:43 GMT
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In article <9fe17a3c.0203120028.1a7caf67@posting.google.com>,

gerhard.holst@pco.de says...

- > Craig Markwardt <craigmnet@cow.physics.wisc.edu> wrote in message news:<on1yev3r9q.fsf@cow.physics.wisc.edu>...
- >> Dan Larson <drl16@cornell.edu> writes:
- >>> I am trying to do simple ratiometric
- >>> imaging with IDL. Of course, since
- >>> there is some pixelation noise, the
- >>> ratio is not very robust. I have
- >>> experimented with a number of
- >>> different filters (median, Gaussian
- >>> deconvolution, smooth) to try and
- >>> remove some of this instability.
- >>> Is there a filtering technique which
- >>> is minimally perturbative that will
- >>> remove some numerical artificats
- >>> without changing the boundaries of
- >>> objects?

>>

- >> Dan, you should be filtering the two images, *before* computing the
- >> ratio, right? I would have said that goes without saying, but now I
- >> am saying it. [The reason of course is that the ratio does not have
- >> a nice compact statistical distribution, so averaging is less
- >> robust.]

>>

>> Craig

>

- > Dan,
- > if your are looking for more edge preserving filters you might
- > search for topics like "Savitzky-Golay" and "LOESS", both are
- > filters that might consume a little more time in calculation
- > (especially the LOESS I have found on the web, if you are interested
- > I can look for the link), but they do a good job in smoothing
- > while edge keeping, much better than boxcar, median etc.

>

> Gerhard

>

Gerhard,

I am familiar with the Savitzky-Golay filter, but I have never used the LOESS filter. If you have an implementation that you like, I would like to hear about it. Do you know what the acronym stands for? Page 2 of 2 ---- Generated from comp.lang.idl-pvwave archive