## Subject: Re: HELP: replace missing value with closest good pixel Posted by sterner on Wed, 14 Jun 1995 07:00:00 GMT

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## knight@ll.mit.edu writes:

- > I have 2-D images with flaws, i.e., missing pixels. I want to replace each
- > missing pixel with the closest good pixel. Does anybody have a routine to do
- > this? For example,
- > new = replace(image,missing=99)
- > where
- > image = 2-D array
- > missing = keyword to specify the value which is to be replaced
- > new = image with each pixel having value 99 replaced by closest pixel
- > with a value not equal to 99.

Here's a simple technique that seems to work well.

new = image
w = where(new eq missing)
m = median(new,3)
new(w) = m(w)

The median filter does a nice job filling in the missing pixels (if the missing value is outside the range for good pixels). The size of the filter can be adjusted for the severity of the missing data. Only the missing pixels are modified, the rest of the image is untouched.

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