Subject: Faster image median filtering
Posted by Deckard++; on Fri, 24 Jun 2011 13:48:01 GMT

Hi,

I am confronted with a performance issue related to median filtering
of images using the median() function of IDL. I have rather extended
sets (several thousands) of 1500x1500 images, and I need to median
filter each of them. So far I have been using this to filter them

img_filtered = median(img, boxsize)

The problem is that it take ~5 seconds per image for boxsize=15, which
is ok for a few images but really time consuming when considering
thousands of images. I have a few questions:

1- is there a way to speed-up median filtering that I am not aware of?
2- do you know if IDL implementation of 2D median() is the most
efficient?
3- if not, are you aware of a DLM that would implement a faster median
filtering of images?

Thank a lot in advance.

Best regards,

 -- Arthur;