
Subject: Re: Kuwahara Filter

Posted by [Joshua Nipper](#) on Thu, 14 Feb 2002 23:15:15 GMT

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That was an old version of the code, this is what I'm currently using....

Josh

```
function kuwahara,input,kernelsize
T=systime(1)
s=size(input,/dimensions)
temp=bytarr(s)
identity=intarr(kernelsize)+1
M=indgen(kernelsize)-(kernelsize/2)
mX=M#identity
my=-identity#M
for i=0,s[0]-1 do begin
  for j=0,s[1]-1 do begin
    xpoint=j
    ypoint=i
    region1=input[(xpoint-1)+mX,(ypoint+1)+mY]
    region2=input[(xpoint+1)+mX,(ypoint+1)+mY]
    region3=input[(xpoint-1)+mX,(ypoint-1)+mY]
    region4=input[(xpoint+1)+mX,(ypoint-1)+mY]

    var=[variance(region1),variance(region2),variance(region3),variance(region4)]
  ]
  avg=fix([mean(region1),mean(region2),mean(region3),mean(region4)])
  location=where(var EQ min(var))
  temp[xpoint,ypoint]=avg[location[0]]
  endfor
endfor
PRINT, SYSTIME(1) - T, 'Seconds'
return,temp

end
```
