

Digital Image Processing, 4th ed.

Gonzalez & Woods

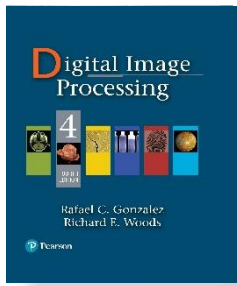
www.ImageProcessingPlace.com

Projects

#8

twodSFilter(f,w)

- (a) Write a function **`g=twodSFilter(f,w)`**, for performing 2-D spatial filtering of image, ***f***, and kernel, ***w***. This function should use replicate padding by default. Your function should by default scale the input to the range $[0,1]$.
- (b) Test your function implementing a low-pass filter (***averaging spatial filter***) to reduce sharp transitions in intensity with $w=3 \times 3$, 11×11 and 21×21 , applying in ***testpattern1024.tif*** image



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What should be uploaded?

1. m file (commented);
2. Input and processed Images
3. conclusions.