

# Project #1

assign October 17, 2022    due October 22, 2022

Apply the same strategy of Figures 3.57 to the images, *kid blurred-noisy.tif* and *fruit blurred-noisy.tif*.

Plot all the intermediate (in-process) images as illustrated in Figure 3.57 (a)-(h):

(a) original, (b) Laplacian, (c) Laplacian-sharpened, (d) Sobel-gradient, (e) smoothed gradient. (f) extracted feature: (e)·(b), (g) (a)+(f), and (h) final image obtained by power-law transformation of (g).

**Upload your project report  
to E3 Assignment before 23:55 of due date.**

Your report (Word or pdf format) should contain:

- Source codes (28%)
- 16 images, use 200dpi to plot (48%)
- Figures and Excel tables of the original and output histograms (24%)

Kid blurred-noisy.tiff  
800x600



Fruit blurred-noisy.tiff  
900x900

