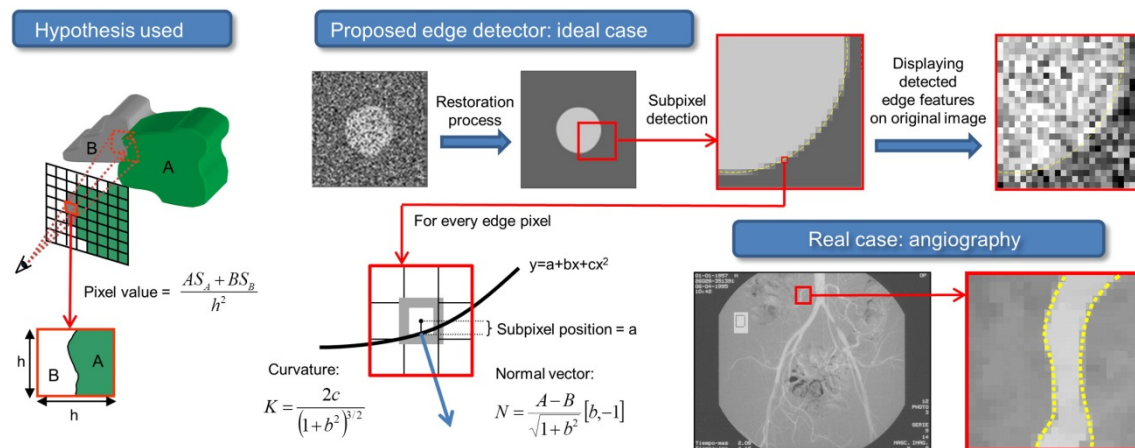# Subpixel Edge Detection

This is the Matlab source code of the subpixel edge detection method detailed in the paper "*Accurate Subpixel Edge Location Based on Partial Area Effect*", published by Elsevier in
http://www.sciencedirect.com/science/article/pii/S0262885612001850

The main folder contains the following files:

- **subpixelEdges** is the detection method. Type `help subpixelEdges` for more info

- **visEdges** is the method for displaying detected edges over the image

- **subpixelImage** creates a high resolution binary image with the detected edges

- example1 is an example of using the method with a synthetic image

- example2 is similar but using a real image

- example3 uses a big image of a printed text captured by a mobile phone camera

- example4 creates a high resolution binary image for the example 1

- example5 is an example of using the method with a high-noise synthetic image

- example 6 is similar but using a real angiography

- subpixelStartGUI is a graphical app to test different features of the method

Any comment or question, please mail to agustin@dis.ulpgc.es