

ABSTRACT**A METHOD FOR IMPROVING ACCURACY OF AN IMAGE PROCESSING SENSOR**

5 The disclosed method solves the problem of obtaining lower resolution images from lower resolution image sensors, by improving processing accuracy of the image sensors. The method includes obtaining a target image, traversing the target image to obtain a plurality of target segments based on contours identification by edge detection, selecting a first segment of the plurality of segments and choose a first test image corresponding to the first segment based on area and edges of the contour, generating Graded Similarity Index between the first segment and the first test image, determining centre of the first
10 segment image based on the Graded Similarity Index, and executing sub-pixel interpolation to the centre to obtain sub-micron accuracy.

FIG. 1