## Detect Circles in Image: Using Statistical Image Analysis


#### Abstract

Authors : Fathi M. O. Hamed, Salma F. Elkofhaifee Abstract : The aim of this work is to detect geometrical shape objects in an image. In this paper, the object is considered to be as a circle shape. The identification requires find three characteristics, which are number, size, and location of the object. To achieve the goal of this work, this paper presents an algorithm that combines from some of statistical approaches and image analysis techniques. This algorithm has been implemented to arrive at the major objectives in this paper. The algorithm has been evaluated by using simulated data, and yields good results, and then it has been applied to real data.


Keywords : image processing, median filter, projection, scale-space, segmentation, threshold
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