Design and Integration of an Image Surveillance System

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Abstract

In this paper, an image tracking system of using the image processing techniques on a PC platform is furnished. Images are processed by image difference to separate the object from the background. The object's moving distance is then calculated based on the object's geometry center obtained from the outline of the separated object's image. In addition, the step motor is used to control the CCD camera as a feedback of the object's displacement. The CCD camera is thus able to track and monitor a moving object in real-time.

Keyword：Image Processing; Surveillance System; Image Difference; Binary Threshold