Remote Surveillance System Design Based on JPEG2000 Image Compression Technology

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Abstract

This research is to establish a real time image tracking and image transmission system by using PC as a development platform, and also using image process methods and internet transmission techniques. The object's contour can be obtained through the image process of two consecutive pictures; so the center of the moving object is found. The camera base can be controlled to follow the object. The image JPEG2000 standard compression technique is adopted to compress the images for internet transmission. The compressed images are transmitted to a remote PC for remote observation and storage.

Keyword：Image Processing, Surveillance System, JPEG2000