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Vision-based detection and tracking of moving target in video surveillance

(Conference Paper)

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Abstract

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In this paper a real-time detection and tracking of moving targets is presented. The scheme involved four phases. Phase one: Object segmentation which used to identify the foreground objects from the background by using background subtraction based on temporal differencing and finding the average background model. Phase two: Object recognition used to identify the foreground objects that should be tracked by using simple blob detection. Phase three: Object representation which takes the outcome from phase two. It computes the recognized object to be tracked. Phase 4: Object tracking that used Kalman filter. The results show that the tracking system is capable of target shape recovery and therefore it can successfully track targets with varying distance from camera or while the camera is zooming. © 2014 IEEE.

Author keywords

detection moving images object detection tracking video surveillance

Indexed keywords

Engineering
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Security systems Shape optimization Surface discharges Target tracking
Tracking (position)

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