عنوانمقاله:
Optical Flow Based Moving Object Detection and Tracking for Traffic Surveillance

محلانتشار:
ششمین کنفرانس مهندسی برق و الکترونیک ایران (سال:1393)

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خلاصه مقاله:
Automated motion detection and tracking is a challenging task in traffic surveillance. In this paper, a system is developed to gather useful information from stationary cameras for detecting moving objects in digital videos. The moving detection and tracking system is developed based on optical flow estimation together with application and combination of various relevant computer vision and image processing techniques to enhance the process. To remove noises, median filter is used and the unwanted objects are removed by applying thresholding algorithms in morphological operations. Also, the object type restrictions are reset using blob analysis. The results show that the proposed system successfully detects and tracks moving objects in urban videos.

کلمات کلیدی:
optical flow estimation; moving object detection; tracking; morphological operation; blob analysis

لینک ثابت نیت مقاله در پایگاه سیویلیکا:
https://www.civilica.com/Paper-ICEEE06-ICEEE06_099.html