Abstract

In this paper, trip wire is implemented using video analytics technology. This trip wire is used to maintain security for outdoor and also indoor scene. Undesired motions in restricted areas are detected and tracked. This restriction to specific area of video scene is provided by drawing trip wires. Alarm indication will appear on moving objects which crossed trip wires. Direction of tripping is selected by user. Main advantage of this application is user can select single trip wire mode or two trip wire mode. Continuous Adaptive MeanShift (CAMShift) Algorithm is used for motion tracking. Mouse callback events are implemented to draw trip wires on video. Application is developed by using OpenCV library functions and C code.

References

- Gauither Lemone (2010,October) follow region of image frame by frame [Online].
Available: http://gauth.fr/category/opencv/
- Mahalakshmi M. "Real time Vision based Motion Object Tracking using CAMShift algorithm with enhanced Motion Segmentation," IEEE Trans, pp1-8, July 2010

Index Terms
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Keywords
CAMShift OpenCV Trip Wire Video Analytics