









Fig. 6 Motion tracking and velocity estimation in bad quality video file

## V. CONCLUSION

In this paper, we have proposed a new procedure to track and determine velocity of blobs by integrating several strong tools like Video Surveillance Systems with optical flow computation. We also developed an application and test its performance with some different video files of highway traffic camera. The experiments of tracking moving vehicles are carried out from the slight traffic environment to heavy traffic environment. A threshold is applied manually at last to reduce outliers that do not come from real motion in the video. In future research, the proposed method can be improved by including autonomous learning and detection of the value of threshold in order to fit to motion in the video.

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