ABSTRACT
For computer vision field, the intelligent video monitoring systems is always an important subject. Many high-tech surveillance technologies, software and hardware installations provide against danger. However, not all solutions applied to many different circumstances. Compared to traditional build-in camera, mobile camera not only avoids many dead angle situations, but also save huge cost on facilities. Furthermore, mobile camera reaches a higher and better quality surveillance result. The research on this paper will mainly focus on video monitoring system development using mobile camera for moving objects detecting and tracking. Background changes while camera is in moving motion. Therefore, the traditional background subtraction would not be the best solution for detecting the foreground objects. Essentially, the emphasis on this paper will be the research on using optical flow analytics to improved and avoid traditional weakness and combined with the optical flow character in order to track moving object.

Keywords : mobile camera ; optical flow ; moving object detection ; background subtraction


