Motion Detection in Webcam Live Video Stream Using Video Matching and Image Processing Techniques to Enhance Surveillance and Security

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ABSTRACT

The issue of surveillance and security brings to mind a lot of connotative meanings to different people. This depends strongly on what aspect of life the surveying takes place. This project is going to explore visual surveillance particularly motion detection in live video stream. I will also use the detected momentary image to alert the user/operator via various alerts channels, that investigation into video motion detection and video matching techniques. This explained followed by the understanding of video capturing and storage formats for images and its later transmission via various alert channels.

The author made extensive and exhaustive search into the video sequence analysis and processing in-terms of surveillance and security issues because it is a prime and viable sector of interest, and with that said, this project merely concentrates on the premise that visual surveillance is necessary for property and personal space for say, a college student, which can be better safeguarded by the use of such a surveillance system proposed by this project.

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