

Robust Detection of Abandoned and Removed Objects in Complex Surveillance Videos

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Abstract→: Video surveillance cameras can As→ a powerful tool for automating the detection of different situations And helping security officers to make proper decisions Will be used to enhance the security level The system also reduces hardware costs and increasing insecurity and threats In public environment such as airports, shopping malls, stadiums, theaters, etc. Has increased the need for an automated monitoring system, because the use of human resources, due to the large number of cameras, Lack of sufficient knowledge of the movements, behavior and suspicious objects, high cost, low accuracy fatigue, lack of sufficient information the environment and other, it can not be a reliable and efficient. Video surveillance system can be security agents,→The identifying potential threats and identify behaviors, suspicious people and objects be of great importance, But since most desired locations to monitor, very lively and busy traffic, Assessment and diagnosis at the scene of lively welding with high congestion are considered to be one of the challenges of this Research. In this thesis abandoned and removed objects suspected detection methods have been studied in real time.. Proposed model, based on background subtraction methods and physiological model is HMAX on databases PETS2006 and i-LIDS is examined And the improvement of the proposed method compared to the background using Gaussian Mixture modeling to identify the foreground, the rate of 10.7 per cent.

Keywords : Suspicious objects, surveillance cameras, background subtraction, HMAX

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