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DESIGN AND IMPLEMENTATION OF UNASSOCIATED OBJECT INTELLIGENT ANALYZER FOR VIDEO SURVEILLANCE

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ABSTRACT

Video surveillance is an important aspect to any retail operation's loss avoidance approach. A major drawback in loss avoidance techniques today is that analog video equipment cannot detect criminal behavior and alert personnel. One has to constantly keep a watch on monitors – or later has to go through long video records to find a particular incident. Sometimes the poor quality of video also hurts effectiveness. The regular improvement in image processing technology is video surveillance applications. Technology for detecting unassociated objects in consumer world like airports, railways stations, shopping malls has resulted in commercialization and has won worldwide international awards. However, the requirement of a consumer video application is more than ever for an automated surveillance system. This paper propose an intelligent analyzer for semantic analysis of unattended objects in relation with human behaviors from a monocular surveillance video which is taken by a consumer camera from cluttered environments.

KEYWORDS: Consumer Video Surveillance, Intelligent Analyzer, Unattended Object, Multiple Background Model