Abstract

The role of Real Time video surveillance System has been elevated due to increased importance in safety and security. Traditional systems need human operators to understand the activities of objects of interest and take decisions. However, humans do make mistakes. The main reason is the nature of the task is passively watching multiple monitor screens where nothing special happens for a long period of time. The Proposed Real Time video surveillance system is capable of detecting objects of interest, classify and track them. The Real time surveillance system with the capability of detecting and recognizing motion of a walking person in video which can lead to useful autonomous system. This can be done by using Gait Analysis for tracking scenarios and generating notification to authoritative person.

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**Index Terms**

Computer Science  
Security

**Keywords**

Gait analysis  
GEI (Gait Energy Image)  
PCA (Principle Component Analysis)  
MDA (Multiple Discriminant Analysis)