Abstract

Security and safety of the people in public places is the major concern for the law enforcement departments of this country. Building surveillance system with video tracking and robotic platforms is the current challenge for the engineers to build indigenous Security Systems. The majority of existing systems are stationary with roof mounted video cameras for object tracking which do not provide full proof security. In this paper, a prototype of semi-automated robotic system for surveillance, object tracking and retrieval in real time environment is discussed. Surveillance is accomplished by video camera, object detection and tracking is achieved by image processing techniques and a robotic system with an arm. The retrieved object is disposed in a pre designated location. The obstacle detection and avoidance is adopted in this robotic surveillance system [1].

References

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Index Terms

Computer Science
Image Processing

Keywords

Surveillance  Obstacle Avoidance  Objects Detection  Video Tracking  Centroid
Bounding Box
Region Of Interest
Object Retrieval