Abstract

Automatic human detection is an important application where security is the main concern. As human detection problem involves classification of two objects as humans and others, a human detection using intelligent video surveillance system is presented using support vector machine to detect human in surveillance field. In this paper, in order to improve the efficiency of the machine learning 2D Wavelet transform based features are used. It consists of wavelet statistical features and wavelet co-occurrence features which are obtained from red, green and blue layers of sample images. The sample images are obtained through the video which forms training input to SVM. The experimental results demonstrate that the proposed system achieves good success rate for wavelet co-occurrence features.

References

System, Forth International Conference on Natural Computation, 139-143.

Index Terms

Computer Science Multimedia

Keywords
Human Detection Support Vector Machine Video Surveillance Wavelet Transform