Abstract

Face detection is a very hot research topic in the fields of pattern recognition and computer vision. Its applications are widely used in artificial intelligence, surveillance video, identity authentication and human machine interaction. Face detection is based on identifying and locating a human face in the image, regardless of position, size, and condition. Various algorithms are proposed to detect faces in an image. This implementation is based on adaptive boosting algorithm and uses haar features which is based on statistical methods to detect face. Algorithm is implemented in MATLAB and synthesized by using Verilog on XILINX.
Implementation of Face Detection System using Adaptive Boosting Algorithm

System Using Flexible Appearance Models,


**Index Terms**

Computer Science

Artificial Intelligence

**Keywords**

Face Detection  Computer Vision  Adaboost