

# Abstract

**Maha A. Sharkas**

## **MBLBP Face Detection with Multi-exit Asymmetric Boosting**

Face detection plays an important role in many applications such as video surveillance, face recognition, face image database management etc. This paper presents a new technique which reduces the learning and detection time using the multi block local binary pattern (MBLBP) with Multi-exit Asymmetric Boosting. In this technique, the Selected features are reduced by around  $1/20$  of Haar-like method so the learning time is also reduced by about  $1/20$ . The detection time is also reduced by more than  $1/4$  of Haar-like detector. Multi-exit Asymmetric Boosting reduces features by about  $1/5$  of the cascade method so the learning and detection time is also reduced.