

Abstract

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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.