

图形、图像、模式识别

特征点LBP信息在表情识别中的应用

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摘要 提出一种基于特征点LBP信息的表情识别方法。在分析了表情识别中的LBP特征之后, 选择含有丰富表情信息的上半脸眼部周围和下半脸嘴部周围的特征点, 计算每个特征点邻域的LBP信息作为表情特征进行表情识别。实验表明, 基于特征点LBP信息的方法不需要对人脸进行预配准, 较传统的LBP特征更有利于表情识别的实现。

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Application of LBP information of feature-points in facial expression recognition

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Abstract

An facial expression recognition method is proposed based on the Local Binary Pattern (LBP) of feature-points. First, the LBP feature in facial expression recognition is presented. Then the feature-points around the eyes of upper face and the mouth of lower face is fixed which hold rich expression information. And the LBP map of the neighbor field of each feature point is computed as expression feature for facial expression recognition. Experimental results show that, the face normalization is not necessary by using the proposed method, which can improve the facial expression recognition.

Key words [feature extraction](#) [local binary pattern \(LBP\)](#) [histogram sequence of LBP](#) [facial expression recognition](#)

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