

稀疏样本人脸检索方法研究

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摘 要: 提出一种将 Gabor, LGBP, LPQ 三种特征融合的人脸特征描述方法.将人脸按五官进行分块, 分别提取 Gabor, LGBP 和 LPQ 特征, 再通过融合得到最终的融合特征来表征每一个人脸.实验表明, 在 FERET, AT&T 数据集以及在网吧采集的实际人脸数据集上, 该融合特征检索性能与当前常用的特征相比有了一定程度的提高.

关键词: 特征融合; 人脸检索; Gabor; LGBP; LPQ

Approach on Sparse Samples Face Retrieval

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Abstract: Face retrieval training samples is difficult to obtain in many situations. Therefore, an effective way to describe the human face becomes more important. We have fused Gabor feature, LGBP feature and LPQ feature to describe face in this paper. Faces are divided into blocks according to features, then fusion features obtained to characterize each individual face. Taken together, our results suggest that fused features for data retrieval have a certain improvement compared with the current popular features in FERET, AT&T database and ours dataset.

Key words: feature fusion; face retrieval; Gabor; LGBP; LPQ

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