عنوان مقاله:

Facial Feature Detection and Extraction using Symmetry and Region-based Deformable Template Matching

محل انتشار:

چهاردهمین کنفرانس بین المللی سالانه انجمن کامپیوتر ایران (سال: 1388)

تعداد صفحات اصل مقاله: 6

نویسندگان:

.Hoda Bahonar - *Dep. of Computer & Electronics Engineering/Tarbiat Modares University, Tehran, Iran*

.Nasrollah M Charkari - *Dep. of Computer & Electronics Engineering/Tarbiat Modares University, Tehran, Iran*

خلاصه مقاله:

In this paper, we propose a method for selecting the symmetry axis of eyes region from two or more candidates. We propose a region-based deformable template matching from two new defined operations: intensity-based 2-clustering and edge shadowing. The results display the effectiveness of our method for extraction of eye, eyebrow and nose templates. The parameters of these templates can be used as feature vectors in low bit rate transmission. Evaluation of the proposed method on an Iranian database shows the accuracy of 99% for feature region extraction and 86% in average for feature template extraction

کلمات کلیدی:

Facial feature detection; Facial feature extraction; Deformable template matching; Projection function