Abstract

It is very challenging to recognize a face from an image due to the wide variety of face and the uncertain of face position. The research on detecting human faces in color image and in video sequence has been attracted with more and more people. In this paper, we propose a novel face detection framework that achieves better detection rates. The new face detection
algorithms based on skin color model in YCgCr chrominance space and HSV color space. Firstly, we build a skin Gaussian model in Cg-Cr color space, and then some constraints are used to get candidates of face. Secondly, a calculation of correlation coefficient is performed between the given template and the candidates. Experimental results demonstrate that our system has achieved high detection rates and low false positives over a wide range of facial variations in color, position and varying lighting conditions.

Reference

- Chiang J.Gray World Assumption

Index Terms

Computer Science  Image Processing

Key words
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