Abstract

There has been a growing interest in automatic age and gender classification, as it has become relevant to an increasing amount of applications such as human-computer interaction, surveillance, biometrics, intelligent marketing and many more. Facial age and gender from the face image of a person is one such significant demographic attribute. In this paper, presents a review of automatic facial gender classification and age estimation framework in computer vision. While highlighting the challenges involved during classification of images captured under unconstrained conditions or may be the laborious process of gathering the face images for age estimation, as aging is the uncontrolled and slow process. A comprehensive survey for facial feature extraction methods and face databases for gender and age estimation studied in the past couple of decades is mentioned. Evaluation and result based performance achieved for various face images from different databases has been explained.


19. Ming-Hsuan Yang, Researchgate, January 2015 Face Detection.


Index Terms

Computer Science Information Sciences

Keywords

Feature extraction, Face recognition, Pre-processing, Aging Pattern, Dimension reduction, Geometric based, Appearance based.