

Heydi Méndez Vázquez

Title: Face Recognition for Real Applications

Abstract. Face recognition is an active research topic in computer vision since its importance in many applications such as video-surveillance, access control, among others; where existing algorithms should usually operate with a processing speed close to real-time, maintaining a high accuracy. Several methods have been proposed in the literature for face recognition. Our research group have proposed a number of state-of-the-art methods for face recognition to be used in real applications such as an efficient method based on binary features and a method robust to low-resolution for face recognition in videos. We have also developed a method for face images frontalization, which is usually a necessary step when the images are captured in non-controlled scenarios. Finally, some methods developed for attributes (gender, age, ethnicity) classification based on face images will be presented, that can be used on visual surveillance but also in different commercial systems. Some examples of the applications of these methods will be shown.