

286. FACE BASED AUTOMATIC HUMAN IDENTIFICATION USING SOFT BIOMETRICS

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Abstract- Biometrics is a form of identification and access control based on their physiological and behavioral characteristics. Soft biometrics is the sub class of biometrics which concentrates on description to bridge the semantic gap between the biometric technology and human vision. Categorical labels like male, female, skin color, hair color etc are used as demographic information to train the humans in addition to their images. In this approach, the SVM classifier classify and retrieve the human images with higher search accuracy and with low error rate by giving video as a query. This leads to a new dimension of automatic human identification by the conversion of the query video into frames and by the extraction of the key frame from the video using ADT method which is tested with already trained images for identification.

Index terms-Soft biometrics, categorical labels, face recognition, retrieval accuracy

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