

MODIFICATIONS IN HUMAN FACE IMAGE FOR PERSONAL IDENTIFICATION

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ABSTRACT

A facial composite is a graphical representation of an eyewitness memory of a face, as recorded by a composite artist. Facial composites are mainly used by police in their investigation of crimes. Construction of composite is originally performed by a trained artist, through drawing, sketching, and painting in consultation with a witness or crime victim. The information about the outlines of the facial features must be given to determine the characteristics of the features because the facial features are too complicated. The information of the features is obtained manually. The actual outlines of facial features can be obtained by knowing only some key points. Marking those points is very easy because users only need to indicate a few key points in the input picture. From those key points the system can simulate the outlines of features by connecting the key points in the form of Bezier curve. The key points of new positions are also given manually and the system generates the output. The project renders a new picture using bold edges and large regions of constant shade in which the subject's distinctive features are deliberately exaggerated to produce a new effect. This project focuses on drawing human faces. Some obvious features from a person's looks can be detected as sometimes two people are determined similar to each other by observing if they have the same feature parts.

KEYWORDS: Graphical Representation, Forensic Artists, Facial Composite