

A NOVEL METHOD OF ESTIMATING FACIAL FEATURES USING TAALAMANA SYSTEM

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ABSTRACT

Faces are very specific objects whose most common appearance roughly looks alike. Some changes in the facial features make the faces different. Human face varies from one person to another. The geometric approach represents the face in terms of structural measurements and distinctive facial features that include distances and angles between the most characteristic face components such as eyes, nose, mouth or facial templates such as nose length and width, mouth position and chin type. In this paper, the focus is on predicting geometric features of face from the known width of the middle finger. 13 Geometric features of face of 150 subjects are collected. The proposed method can be used to predict facial features like face length and width, nose length and width, eye length and width, lips height and width, inner and outer distance between eyes using taalamana system and shilpa shastra. The estimation accuracy of more than 90% is achieved for all the estimated features of the face.

KEYWORDS: Facial Features, Taalamana System, Iconography, Human Face, Feature Estimation