

FORECASTING ARM AND FOOT FEATURES OF HUMAN BODY

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ABSTRACT

Arm is an important and most useful organ that is used extensively in both verbal and non-verbal communication. Predicting geometrical features of arm is a challenging task. In this paper an attempt is made to estimate all the geometric features of the arm and foot using middle finger width. Geometric features of both the arms and foot from 75 female and 78 male subjects were collected as a dataset. The proposed method can be used to predict various arm features like palm width and length, width of elbow, wrist, forearm, biceps, length of arm from middle finger tip to elbow, elbow to shoulder using taalamana system. The estimation accuracy of more than 90% is achieved for all the estimated features of the arm except for biceps width which is 85%.

KEYWORDS: Taalamana System, Iconography, Human Arm, Arm Features, Feature Estimation