PREDICTION OF PERSONALITY THROUGH SIGNATURE AND HAND GEOMETRY

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ABSTRACT

Human hand and signature both endow various personalities of an individual that depicts the distinctiveness of an individual. The present work recognized different characteristics through features of hand namely palm shape ratio and finger index proportional ratio for categorization of hand shape as Air, Fire, Water, and Earth which also involved the features of signature such as curved start, ending stroke, underscore, the appearance of the dot on letter and streaks disconnected. The fusion of these two modalities with respect to predictive models and Big Five Factors; produces an 88.0% accuracy rate and is found to be more efficient in predicting the personality of an individual.

Big Five Factors which encompasses personality related traits and which include both positive and negative characteristics of an individual. The various factors present in Big Five were used for the evaluation; performed on the result of traits of signature and palm through matching and replacing factor and algorithmic steps. This research work focuses on the predictive models which define various personalities of 25 subjects.

KEYWORDS: *Big-Five Factor Model, Feature Set, Personality Prediction, Predictive Model*