

25. Artificial Intelligence Play An Important Role Using Various Sensors For Identification Of Person Iris

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ABSTRACT

Iris recognition is one of important biometric recognition approach in a human identification is becoming very active topic in research and practical application. Iris. region is the part between the pupil and the white sclera. This field is sometimes called iris texture. The iris texture provides many minute characteristics such as freckles, coronas, stripes, furrows, crypts, etc . These visible characteristics are unique for each subject. Such unique feature in the anatomical structure of the iris facilitates the differentiation among individuals. The human iris is not changeable and is stable. From one year of age until death, the patterns of the iris are relatively constant over a person's lifetime. Because of this uniqueness and stability iris recognition is a reliable human identification technique.

Neural network based decision support system, is used for persons identification from IRIS recognition. In this case DECISION SUPPORT SYSTEM (D.S.S.) will work as a classifier estimate non linear and complex decision boundaries between different classes. The neural network configuration using MLP, RBF, SVM. The various parameter of neural network will be varied carefully in order to obtained the optimal configuration in view of minium mean square error and maximum classification accuracy and simplicity of neural network model, the available data set ratio of these partition will varied gradually. In each of neural network configuration. The variable parameter test and train by neural solution software.

Finally an optimal neural network based D.S.S. will be designed in each category of neural network and then shall be overall comparison among different neural network configuration. In this case of decision support system confusion matrix and classify accuracy are important to identify person iris image