

SCORE LEVEL FUSION TECHNOLOGY

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The performance of a multi-biometric system can be improved using an efficient normalization technique under the simple sum-rule-based score level fusion .In this paper we present two anchored score normalization techniques based on the genuine and imposter scores. Specifically the proposed normalization techniques utilize the information of the overlap region between the genuine and imposter scores and their neighbors. Secondly, we propose weighting technique that is based on the confidence of the matching scores by considering the mean-to-maximum of genuine scores and mean-to-min of imposter scores. A multi-biometric system having three traits, fingerprint ,vein and retinal , is utilized to evaluate the performance of the proposed techniques. The performance of the multi-biometric system is evaluated in terms of the equal error weight and genuine acceptance rate. The receiver characteristics are also plotted in terms of the genuine acceptance rate as a function of the false acceptance rate.

