Abstract

A multimodal biometric authentication system based on plastic surgery face image using text dependent speech signal is described in this paper. In addition, the system is designed to keep the rate as high as possible for the plastic surgery face image by using text dependent speech signal. Each module of the system, i.e. the face and speech, is developed separately and fusion is done at matching level to obtain the optimal score for the multimodal biometric recognition system. Although information fusion in a multimodal system can be performed at various levels, integration at the matching score level is the most common approach due to the ease in accessing and combining the scores generated by different matchers. Since the matching scores output by the various modalities are heterogeneous, score normalization is needed to transform these scores into a common domain, prior to combining them.
Reference


Index Terms
Key words

Multimodal biometric system
Plastic surgery face image
Speech signal
Matching Score level Fusion