

Evaluation of Different Facial Expression Behavior Recognition Techniques

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Abstract: *Over the past few decades, there has been a lot of activity in the field of behavior recognition using facial expression identification, but it is still difficult because of newly developed varieties of inventions. A number of conventional techniques are applied to a database of photos or videos, including component analysis using eigenfaces, linear discriminant analysis, elastic bunch graph matching using the Fisher face algorithm, hidden markov model, multilinear subspace learning utilizing tensor representation, etc. but fall short on more difficult datasets with greater picture variance and partially rendered faces. Even if they work efficiently during business hours, they don't show much passion in their work. Therefore, it could constitute a barrier to the organization's expansion. The owner is now faced with the task of determining the true cause of it. We wish to acknowledge the workers' expressions of behavior. In order to determine the employees' working interests. It would be easier for him to give an improved work environment to the employee and contribute to the expansion of the organization if he learns about the misbehavior and the reasons behind it. In order to uncover and perhaps contribute to further ways for recognizing the expression of human behavior, we will be analyzing a number of behavior identification techniques in this work, such as appearance-based models.*

Keywords: PCA, LDA, EBG, HMM, HCI, CNN, EBG signals.