

Face Recognition System- A Survey and a New Approach

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Abstract – Humans often use faces to recognize individuals and advancements in computing capability over the past few decades, these recognition systems are automatic now a days. Previous approaches in this field use simple geometric models, but now changed into a science of sophisticated mathematical representations and matching processes. Major advancements in face recognition took place in the past ten to fifteen years. This paper reviews the existing approaches of face recognition techniques and explanation of our fuzzy clustering based approach. A number of typical appearance and feature based approaches are discussed. Also, some efforts have been put in to develop a new approach in which we use PCA for dimension reduction, the projected feature space is formed using fuzzy c-means clustering algorithm.

Keywords–Face recognition, Face recognition techniques, PCA, fuzzy c-means clustering.