Paper 2 — Bharatanatyam Hand Gesture
Recognition using Normalized charin
Codes and Oriented Distance

Abstract

Hand gesture recognition is a Very
Popular application domain cubere the

Popular application domain cubere the System in meant to identify the Signs that are expressive of some meaningful Context or idea. Due to the Complexities involved as its handgesture language, it is offen difficult to understand Mudras. The paper aimed to explore the hand gestie he agention using Normalized chain ader and oriented dultance. The Paper propose a system to identify Shoratanatyan hand gestures or mudras. he process involves a Preprocessing stage onjuts of a sir in based segmentation ollowed by feateur extraction. The fature Considered are Centroid, Chain ade makey dutances. Extracted features are

used to build the different claustiers and terpromance of different classifiers is Compared. Segmentation protein is done baied on a skin Colour. Extracted patents from the training mayer are used to build four recognition models Naive Bayes, PNN, Loguetic Regression, Multiclaus SVM The System Shows an accuracy of 88.47 87.06%, 89.83 %, 92.3% using medels respectively. Comparing the Perspormance of each models, The multiclass sum shows the best Perpormance. The handgestures is an important fact. Bhoratasatyans highlights the use of hand mudras to Project dyperent emotions the dance requires. Every mudra Contribute a spegge meaning. This Process is dusely helated to the Project 'Mudra claim/cater'. The main aim of our project to explore afferent ways to newgrize Indian clauscal Janu mudias. Sum plays a Vital role and shows the best Performance mut

The Proposed System can be integrated with the facial expression recognition module and Posture recognition module to build 9 Complete System for guing ordine training of The dance form by building an interactive System which take from the Video of the dance to every frame and provides the Complete details regarding the mudra. The System is failer the as Compared to the exchang system.