

# Paper: Indian Classical Dance Action Identification using Adaboost Multiclass Classifier on Multifeature Fusion

Indian Classical Dance consist of various action forms involving hand gestures, feet movement, and face gestures. Extracting and recognizing complex video human movements from entire video sequence is a task. This paper focuses on classifying various dance forms from a video input. A new segmentational model is developed using discrete wavelet transform & LBP features for segmentation. The classifier is provided with 5 features calculated from Zernike, Hue moments, shape signature, LBP features & Haar features. The extracted features input Adaboost multi class classifier.

The paper emphasize on multi class multi label Adaboost based classification model problem on multidimensional feature vector. Multiple features and data fusion has increased ability of the classifier

in recognizing the dance forms poses. The idea of  
"Mudra Classification" is to classify and recognize  
mudra forms from a video input. The Adaboost  
can be viewed as a great concept to be used  
as a classifier for the video segments.