

Paper : A Two-Level Classification Scheme for Single Hand Gestures of Sattriya Dance

Sattriya Dance is one of the popular dance forms among the eight Indian Classical Dance Forms. It uses of several hand gestures, similar to other classical dances. About 29 single hand gestures and 47 double hand gestures are used in performing Sattriya Dance. The single hand gestures are known as Ananyukta hastas. This paper is focused on classification of single hand gestures. A two-level classification method is proposed to give better recognition of the hand gestures. In the first level, Support Vector Machine is used to classify an unknown hasta image into one of three groups and in second level, Decision Tree classifier is used to recognize hasta within the group.

The paper revolves around of a two level classification method of single hand gestures. The idea of 'Media Classification' is to identify single and double hand medias. The concept of Support Vector Machine is widely used method in image classification. It also achieved higher accuracy in classification. Decision Tree is another classifier which can be used in deeper levels for more accurate results.