

## Summary paper 2

### Feature Selection using Bag of Visual Words Representation

Bag of visual word model is getting more attention due to its simplicity & good performance on object, scene & activity recognition problems. In this paper an efficient method to substantially increase the recognition performance of object recognition by employing feature selection method using bag of visual word representations. Here images are represented by a vector of weighted word frequencies. In this an, new feature algorithm that selects the relevant features from the large weighted word frequency query vector. It assigns a feature relevance measure to each feature in feature vectors. By using this method it is able to reduce the dimensionality of feature vector substantially and thereby increasing the classification performance by throwing out the irrelevant features. Results shown that it's worth doing feature reduction before matching. So this approach will help our project by employing other feature selection algorithms & using color & texture features.