

BAG OF VISUAL WORDS

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ABSTRACT

In this document, the image classification techniques and their steps have been put up using Bag of words which is extended to an image, making it bag of features or bag of visual words. It also focuses on the different techniques under Bag of Visual words. A comparative study also been done on Bag of visual words and its two different techniques. Spatial Pyramid Matching Scheme which encodes local spatial information(SPM) and geometry preserving visual phrase(GVP) which encode local as well as long range spatial information. The comparative study has found that Spatial pyramid Matching (SPM) and Geometric Preserving Visual Phrase techniques are introduced to improvise upon the basic BoV representation by incorporating local as well as long range spatial information.

KEYWORDS: Mean average, Transformation, Invariance, Image