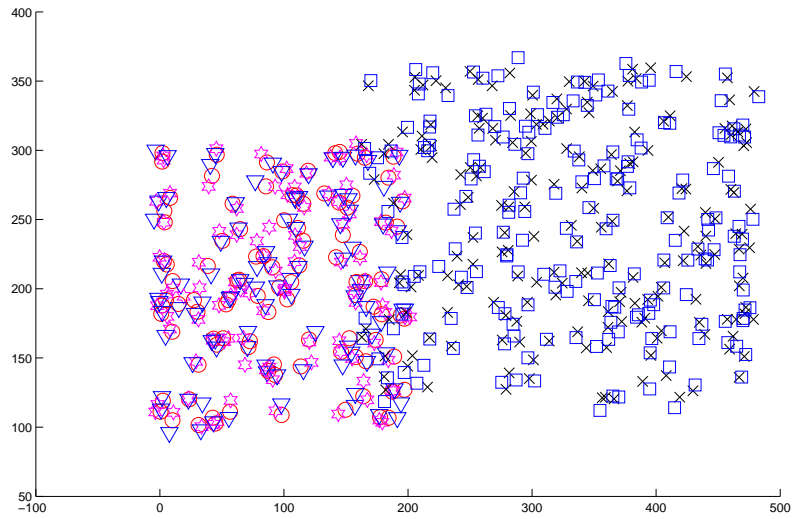


Context-Aware Clustering

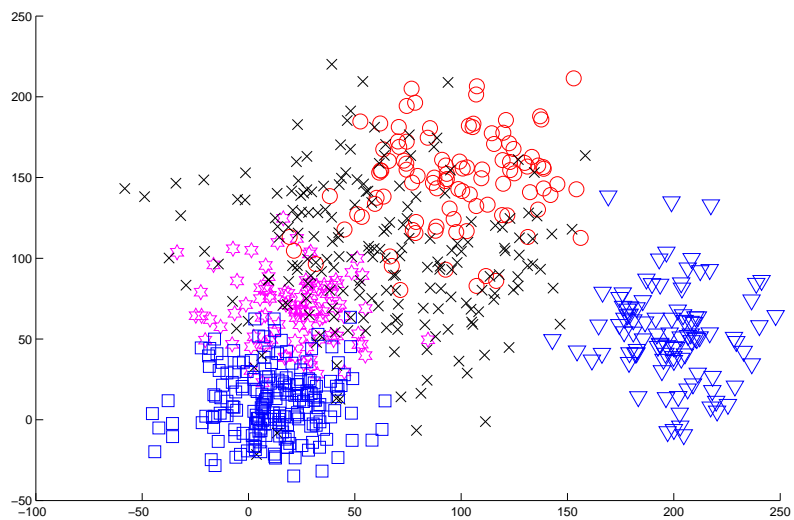
Paper ID: 807

Simulation Result

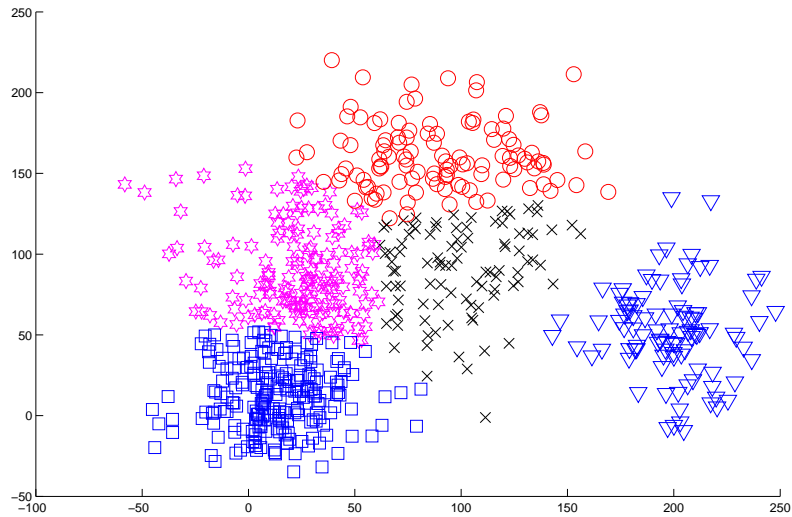
Spatial Space



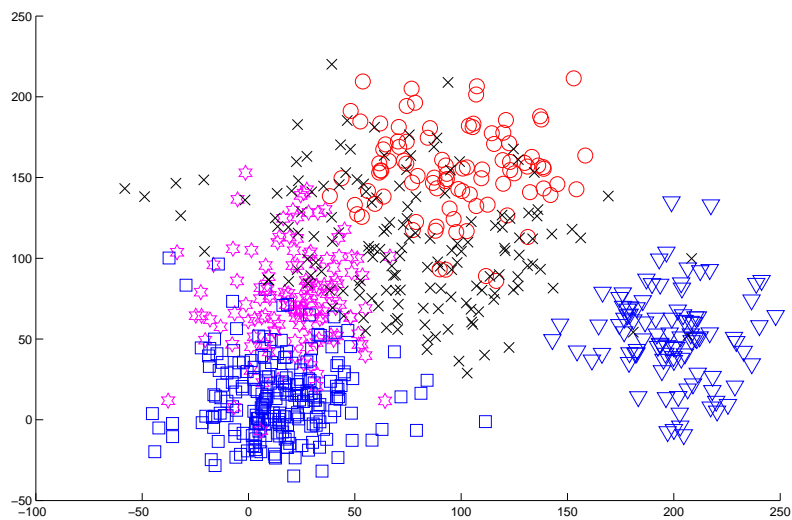
Feature Space



k-means clustering (error rate = 0.25)



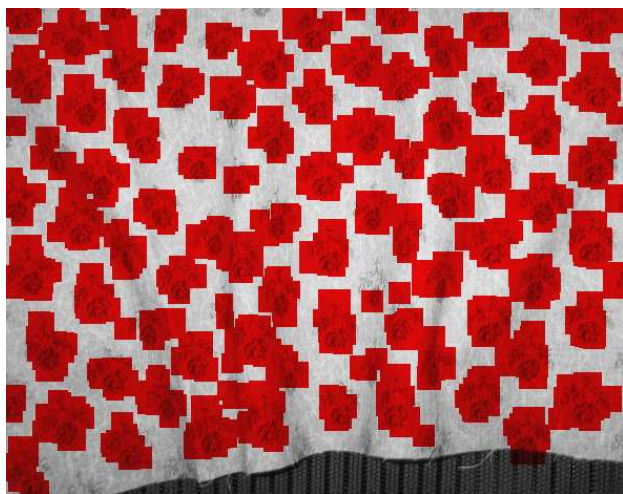
Our method (error rate = 0.12)



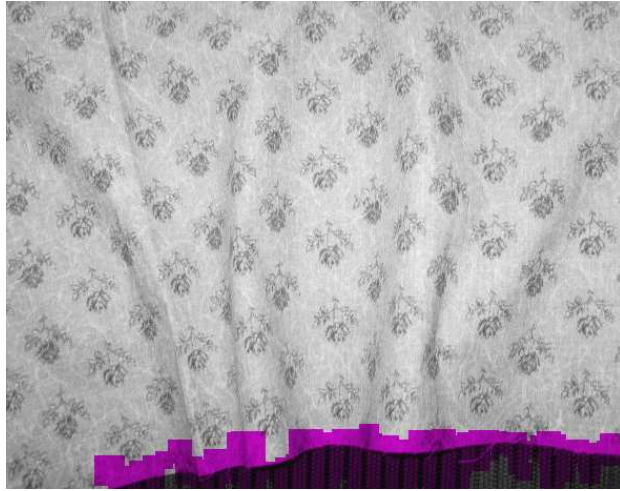
Input Image



Visual Phrase 1



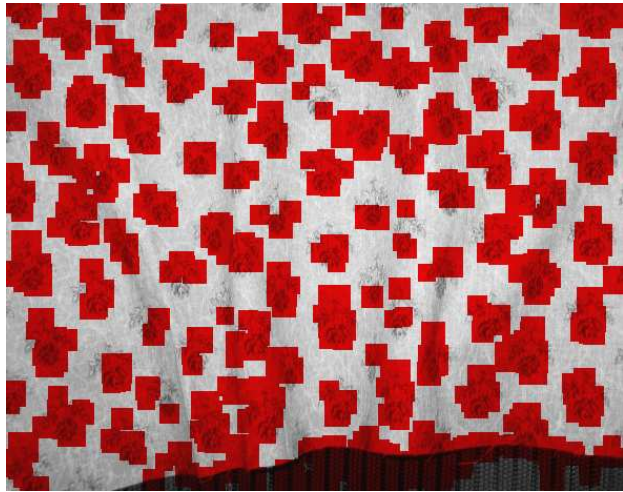
Visual Phrase 2



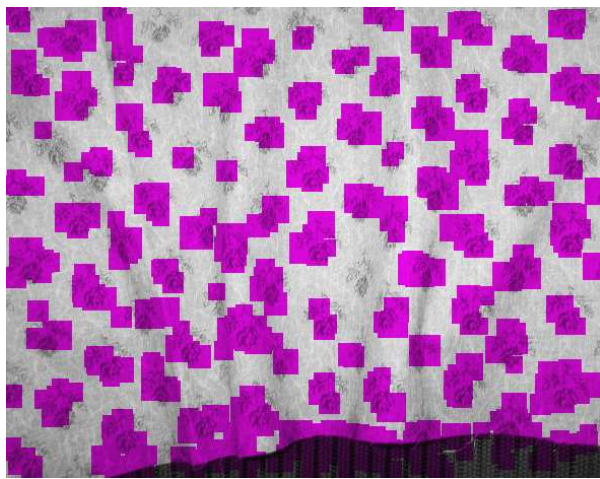
Comparison Results

***k*-means clustering**

Visual Word 1



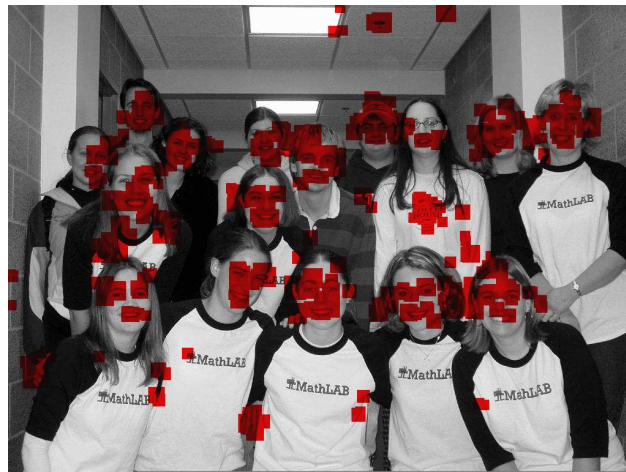
Visual Word 2



Input Image



Visual Phrase 1



Visual Phrase 2



Visual Phrase 3

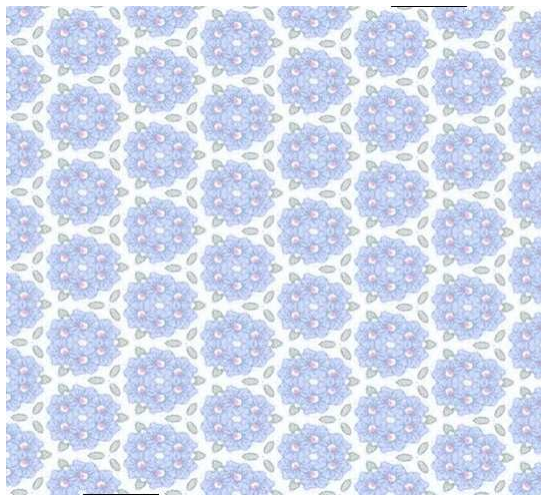


More Results

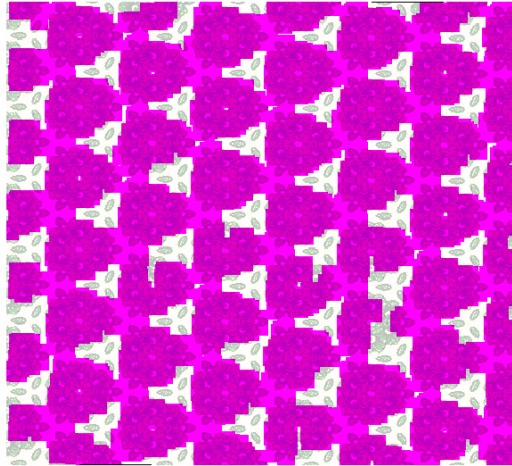
All features (SIFT points) are extracted from gray-level images

*Parameter used: $K=10$; $M1=2$
 λ and M varied*

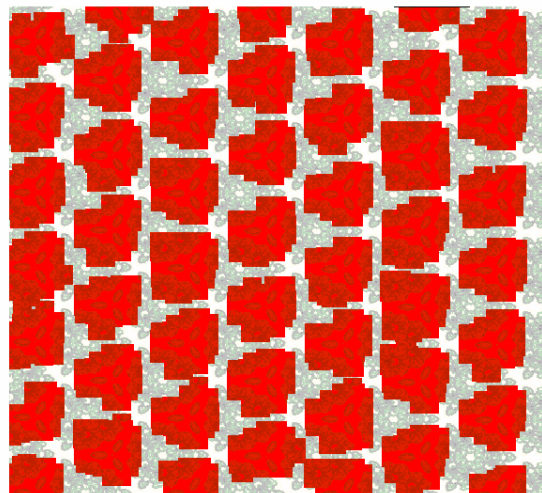
Input Image



Visual Phrase 1



Visual Phrase 2



Input Image



Visual Phrase 1



Visual Phrase 2



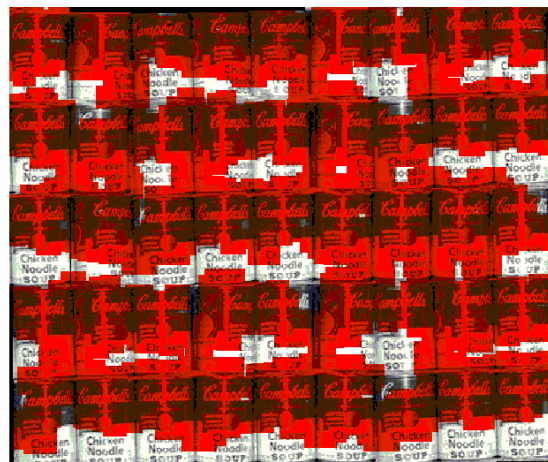
Input Image



Visual Phrase 1



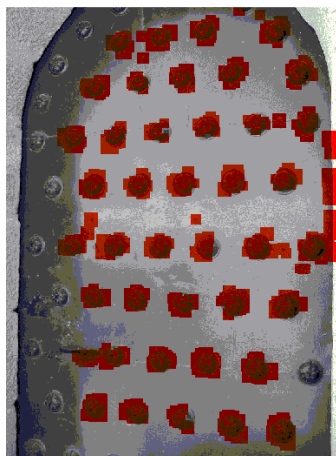
Visual Phrase 2



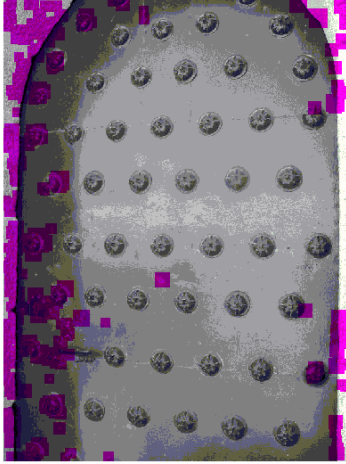
Input Image



Visual Phrase 1



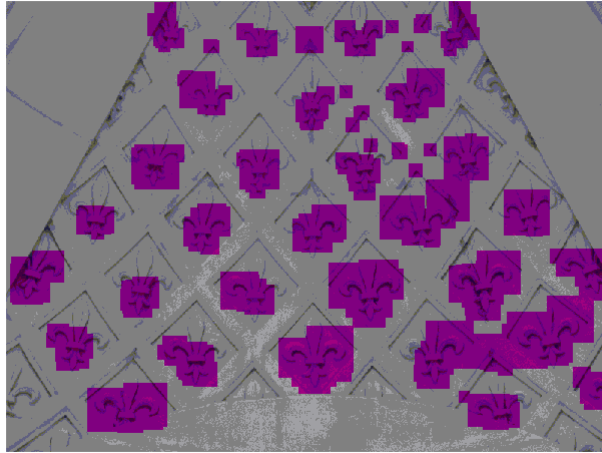
Visual Phrase 2



Input Image



Visual Phrase 1



Visual Phrase 2

