

**CSE3018 CONTENT BASED IMAGE AND VIDEO RETRIEVAL LAB
EXERCISE - 12**

DATE: 17.11.2021

**HISTORAM ORIENTED GRADIENTS FEATURES BASED CBIR
SYSTEM**

Implement a CBIR system that uses features derived from HOG Features.

Database – Minimum 50 images and 2 categories

Query Image – 1

Search Result – 10

Note :

1. Read an image
2. Execute color plane slicing or RGB 2 Gray Conversion
3. Extract HoG Features in each color plane or in Gray scale image.
4. Use Euclidean Distance Measure as the Matching Metric, design the image search engine with these HOG features.
5. Calculate the Recall & Precision of the system. Tabulate for 5 query images.