## In the Name of God



## Machine Learning and Vision Lab 7th Lab Pre report

Prof. Mohammadzade

Sajjad Hashembeiki 98107077

- 1- By normalizing the HOG feature vector, the descriptor becomes less sensitive to variations in illumination and also it helps us with reduce sensitivity to noise.
- 2- If LBP (binary) number has only two transitions from 0 to 1 or 1 to 0, it is called uniform, o.w., it is called non-uniform. If we allocate one bin for each uniform number and one bin for all non-uniform numbers, then instead of 256 bins, only 59 bins will be needed. (all zero and all ones are also considered as uniform)

Uniform LBP pattern is computationally more efficient and is more robust to noise.

