

# Biometric and Security – IT 499 LAB – 2: Errors and Metrics in Identification Framework

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#### **EXERCISES**

Assume enrolment dataset consists of N =45 subjects with 10 samples each. Assume the remaining subjects M= 13 subjects with 5 samples each who are not enrolled in the database.

# 1.) Feature extraction.

### a. Linear Binary Pattern

- i. Use skimage.feature import local\_binary\_pattern
- ii. Paremeters: radius = 3, n\_points = 8 \* radius, and lbp\_bins = 256
- iii. Generate 256 dimensional feature embeddings
- b. Use a pre-trained FaceNet model to extract 512 dimensional feature embeddings.

## **Answer:**

