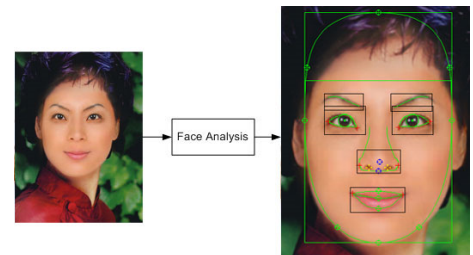


1. Face recognition systems fall into two categories:

- ☐ Authorization and verification
- ☐ Authorization and identification
- X Verification and identification**
- ☐ Face recognition and determination

2. Facial features are defined as:

- X Features extracted from an image of the subject's face**
- ☐ Symptoms of the main features of a human face
- ☐ Features of outline of a man's face

**3. Face recognition system works usually in two main phases:**

1. The first phase: **training process**
2. The second phase: **classification of users**

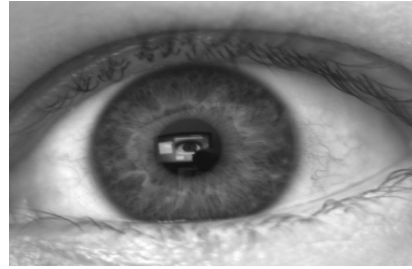
4. Arrange the sub process of facial recognition gradually from image acquisition to face tracking.

- | | |
|-----------------------------------|------------------------------------|
| 1. image acquisition | face localization (2) |
| 2. face localization | face tracking (8) |
| 3. training process | feature extraction (6) |
| 4. pre-processing | image acquisition (1) |
| 5. normalization | training process (3) |
| 6. feature extraction | normalization (5) |
| 7. classification of faces | classification of faces (7) |
| 8. face tracking | pre-processing (4) |



5. Iris based identification consists of:

1. **iris localization**
2. **feature extraction**
3. **classification**



6. Main advantages of 3D face analysis compared to 2D face analysis are:

- X less sensitive to appearance variations**
- X easier to handle pose variations**
- X projective nature of 2D images**
- ☐ are affected by use of cosmetics
- ☐ are affected by illumination variations

7. The basic 3D face recognition methods are:

- X Surface-based 3D face recognition**
- ☐ Details-based 3D face recognition
- X Appearance-based 3D face recognition**
- X Model-based 3D face recognition**

8. Arrange the sub process of the main 3D face recognition process:

- | | |
|---------------------------------------|--|
| 1. 3D facial surface capturing | pre-processing (2) |
| 2. pre-processing | feature extraction (3) |
| 3. feature extraction | measurement of the distance (4) |
| 4. measurement of the distance | 3D facial surface capturing (1) |

