Face Recognition

Face recognition is one of technique to secure the information data which takes the image of person and compares it with the recorded image in the database. The comparing obtained from technique that capture the representation of the faces structure like the shape of eyes, the distance between nose, eyes and mouth, the eyebrows, form of the forehead, and etc.

Face recognition bring all the easiness to the people because before the invention of face recognition. The technique to secure the information can be used from card, pin, password, key and many others. But if we compare the face recognition and other things. Face recognition are the simple and very secure one. Imagine if we use password method, sometimes we can forgot the password or password can be stolen. If we use card or key, sometimes the things can be misplaced in some place and it will make us difficulty.

Face recognition can be also used as detecting the criminal face, when all data of resident face stored in one server/database. If the criminal happened, the police can check the recognition of the criminal face and it can easily detected.

Nowadays, face recognition used in several areas:

1. Security of important places
2. Credit card verification
3. Criminal Identificiation
4. Access control
5. Human-computer intelligent interaction

Challenge in the field of Face recognition

1. Another component like moustache, beards and glasses can’t be detected easily because it should be took of
2. Pose: the images of every face recorded is based on the relative camera faces poses
3. Facial expression and emotions: if someone smile, the system will adjust the shape of his face when he smile. When we want to compare the recorded data and the data which want to be checked, it should be same.
4. Age: image which taken in 10 years gap will not same with the images in database.