

Face Tracking

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INTRUCTION 01

- ❑ Everyday actions are increasingly being handled electronically, instead of pencil and paper or face to face.
- ❑ This growth in electronic transactions results in great demand for fast and accurate user identification and authentication.
- ❑ using the proper pin gains access , but the user of the PIN is not verified . when credit and ATM cards are lost or stolen , an unauthorized user can often come up with the correct personal codes.
- ❑ Face tracking or recognition technology may solve this problem since face is undeniably connected to its owner expect in the case of identical twins.

BIOMETRICS

02



- ❑ A biometric is a unique , measurable characteristic of human being that can be used to automatically recognize an individual's or verify an individual's identity.
- ❑ Biometrics can measure both physiological and behavioral characteristics
- ❑ **Physiological biometrics**: this biometrics is based on measurements and data derived from direct measurement of part of human body
- ❑ **Behavioral biometrics**: this biometrics is based on measurements and data derived from an action ,

How its work 03



- ❑ Facial recognition software is based on the ability to first recognize faces , which is a technological feat in itself. If you look at the mirror , you can see that your face has certain distinguishable landmarks . These are the peaks and valleys that make up the different facial features.
- ❑ VISIONICS defines these landmarks as Nadal points. There are about 80 Nadal points on a human face .
 1. Distance between the eyes .
 2. Width of the nose
 3. Depth of the eye socket
 4. Cheek bones

APPLICATION 04

- ❑ Security / counter-terrosm , Access control , comparing surveillance images to know terrorist .
- ❑ Day Care : Verify Identity of individuals picking up the children .
- ❑ Banking using ATM : The software is able to quickly verify a customer's face .
- ❑ Voter Verification : Where eligible politicians are required to verify their identity during a voting process this is intended to stop voting where the vote may not go expected.
- ❑ Immigration checkpoints use facial recognition to enforce *smarter* border control.
- ❑ Fleet management companies can use face recognition to secure their vehicles.



Thank you