

SEMINAR ON BIO-METRIC SYSTEM

Under the Guidance of Ms. Rshma Chawla

Submitted To:

Ms. Sana Bharti

Assistant Professor

Department Of Computer

Application

Submitted By:

NITESH KUMAR

2020072

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WHAT IS BIO-METRIC SYSTEM?

- Automated method for recognizing individuals based on measurable biological characteristics



TYPES OF BIO-METRIC SYSTEM

1. FINGER PRINT RECOGNITION
2. IRIS RECOGNITION
3. FACIAL RECOGNITION
4. VOICE VERIFICATION
5. HAND GEOMETRY

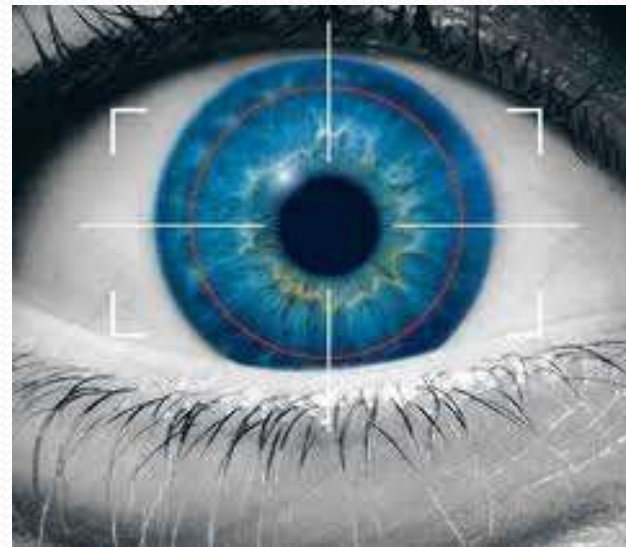
FINGER PRINT RECOGNITION

- **Fingerprint** is a trace of a human finger left on a surface. Human fingers have small structures on them . These structures are unique in every human .



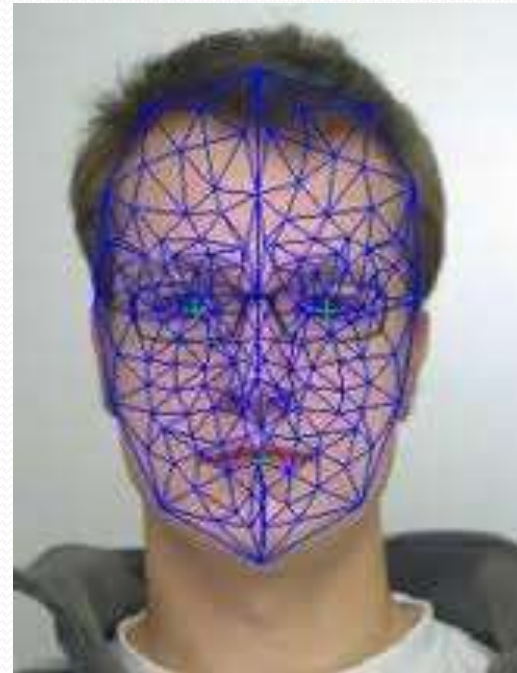
IRIS RECOGNITION

- The iris is the colored, donut-shaped portion of the eye behind the cornea and surrounds the pupil. A person's iris pattern is unique and remains unchanged throughout life. The iris is well protected from damage, making it a suitable body part for BIO-METRIC SYSTEM authentication.



FACIAL RECOGNITION

- Facial recognition is a way of identifying or confirming an individual's identity using their face. Facial recognition systems can be used to identify people in photos, videos, or in real-time.



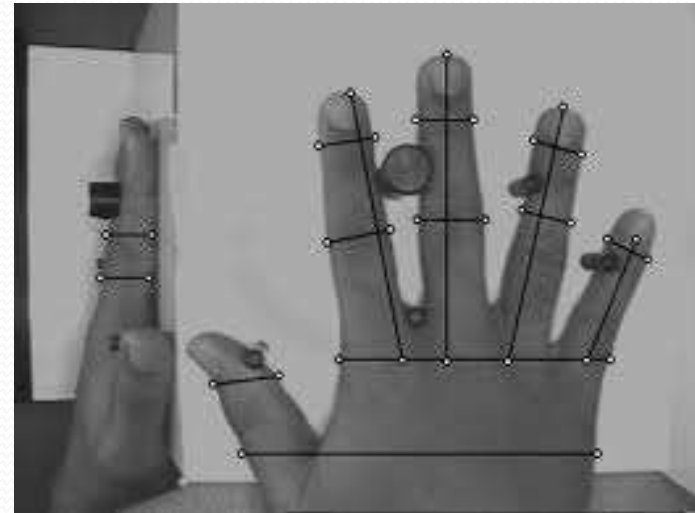
VOICE VERIFICATION

- **Voice recognition** is the identification of a person from characteristics of voices
- **Problems:** include background noise



HAND GEOMETRY

- **Hand geometry** is a biometric that identifies users from the shape of their hands. Hand geometry readers measure a user's palm and fingers along many dimensions including length, width, deviation, and angle and compare those measurements to measurements stored in a file.



APPLICATION OF BIO-METRIC SYSTEM

1. GOVERNMENT
2. FORENSIC
3. COMMERCIAL
4. HEALTH CARE
5. TRAVEL & IMMIGRATION



ADVANTAGES OF BIO-METRIC SYSTEM

- **High security and assurance** – Biometric identification provides the answers to “something a person has and is” and helps verify identity
- **User Experience** – Convenient and fast
- **Non-transferrable** – Everyone has access to a unique set of biometrics
- **Spoof-proof** – Biometrics are hard to fake or steal

DISADVANTAGE OF BIO-METRIC SYSTEM

- **Costs**
- **Data breaches**
- **Tracking and data**
- **False positives and inaccuracy**

CONCLUSION

1. BIO-METRIC SYSTEM technology is on the rise and you need to know all the information associated with the technology before implementing them.
2. You should be aware of the risks that come with the technology and know that the poorer quality technology you purchase the more vulnerable your system is.
3. When you do find a suitable system, make sure you follow steps to improve your cyber security to make sure personal data isn't being leaked.
4. If the system is being implemented in a huge company, it is wise to be mindful of the employees' privacy concerns.
5. You should also educate your employees on the BIO-METRIC SYSTEM security to put their mind at ease

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THANK YOU



Your Queries Please!!