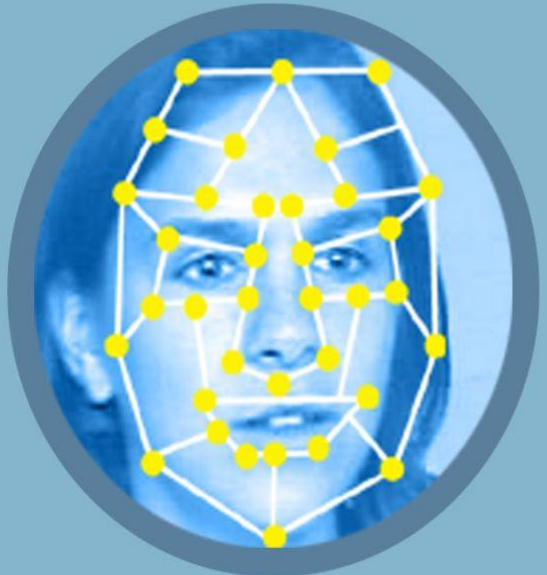


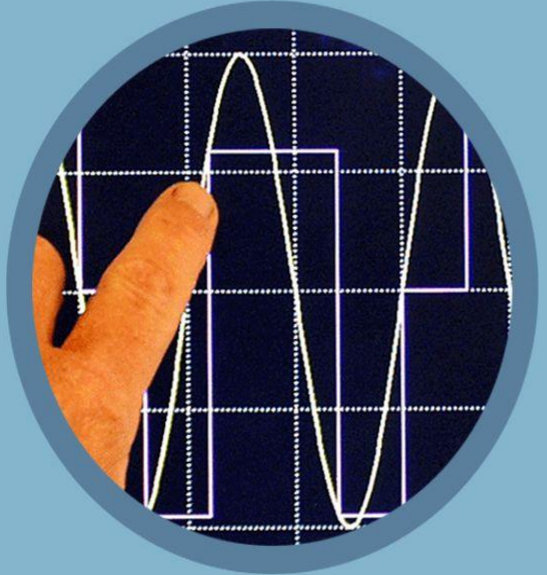
MULTIMODAL BIOMETRICS AUTHENTICATION FOR SECURE ACCESS CONTROL IN NETWORKED AND E-COMMERCE APLICATIONS

A complete secured system with enhanced identification, authentication and access control schemas for applications as tele-working and web-banking services.

Frontal Face Verification



Speaker Verification



FUSION

Smart Cards



Cryptology & Secured Network Architectures



Verification Authentication

Secure Web-Banking Services



Secure Corporate Intranet



biometric access

- Scalable and robust multimodal (face&speech) verification algorithms.
- Scalable classifier combination techniques (fusion).
- Recording and exploitation of a multimodal, multilingual, realistic database.
- Basic security services: biometrics authentication, security protocols, secured storage on Smart Cards.

Two demonstrator applications:

- Web Banking: secured access to web banking services.
- Nomadic Worker: secured remote access to corporate intranet.

Massive field testing:

- Following international standars.
- End-users sites, 368 participants.

Evaluation results:

	FAR	FRR	HTER
BANCA	0.004%	4.041%	2.022%
FACE (FVRT2002)	1%	11%	6%
SPEAKER (NIST2002)	1%	7%	4%

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