

Minutiae Template Interoperability Testing

MIT project for FP6 IST Call 4

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Sixth Framework Programme (STREP)
Project no.: IST-2005-027351

Why the MIT project?

- EC has specific requirements to use fingerprints for future visa, passports and travel documents.
- testing and improving interoperability of finger minutiae biometrics.
- Use of minutiae based templates instead of finger images enables solutions to be privacy enhancing, memory and computational time saving.
- There are problems to interoperability which act as a barrier realising full potential of biometrics.

MIT Objectives

- Work with EC to provide for testing and certification define criteria for interoperability testing
- define criteria for interoperability testing
- develop a database of fingerprint images
- develop a test bed for fingerprint minutiae interoperability
- incorporate an improvement step
- provide for the testing of interoperability of future systems

Scientific Objectives of MIT

- Conduct research to deliver encoding algorithms able to provide interoperability
- Deliver a framework and a certification process which allow future interoperability
- independent certification laboratory will conduct such tests

List of Participants



Work Packages

Objectives of WP1:

Activity Type: Management Activity

- liaising with the EC throughout the project.
- ensure timely delivery of deliverables
- drive the organisation of technical aspects of the workshops

- co-ordinate relationship with external bodies
- develop internal/external communication systems
- organise and co-ordinate deliverables, meetings and workshops.

Work Packages 2-6

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Activity Type: RTD/ Innovation

Objectives include:

- WP2: develop a database of fingerprint images
- WP3: define criteria for interoperability testing
- WP4: develop a test bed for fingerprint minutiae interoperability
- WP5: execute interoperability tests incorporating an improvement step where interoperability of the tested systems can be improved
- WP6: provide for the testing of interoperability of future systems

MIT Vs MINEX2004

- MINEX provides very interesting results concerning minutiae interoperability issues
- MIT addresses the European market
- MINEX concerns M1 records, and MIT ISO minutiae records
- MIT provides a Yes/No interoperability certification, with a tool enabling recurrent certifications
- MIT goal: operational cases.

Results

The MIT project will provide two results session

1st results session - half way through the project at 7 months and

2nd results session - when the project is completed at 14 months.

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