

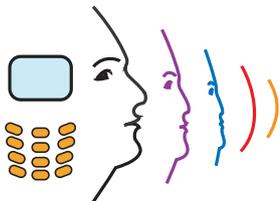
# MOBIO: Mobile Biometry Idiap Progress Report 2008

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## WP1 – Management

- Activity overview:

As coordinator, Idiap is taking care of the day to day management of the project, organizing the technical and review meetings, supervising partner progress towards defined objectives, verifying deliverables and solving problems.

- Description of last 6 month activity:

During the last 6 month, Idiap mainly worked (1) coordinating the delivery of D3.1 and D3.2, (2) on preparing the answer to experts after the review in June 2008 and (3) on strenghtening the Col together with IdeArk. During the summer, Idiap had to find an alternative to a problem encountered by EPM with delivering D6.1. In parallel, Idiap also maintained the MOBIO website and mailing lists. Finally, Idiap organized the 3rd technical meeting at the Universiy of Surrey on Oct 6-7 2008 and the 4th technical meeting at the Idiap research institute on Jan 8-9 2009.

- Future work:

In the next couple of month, Idiap is going to coordinate the delivery of D3.3, D4.1, D4.5, D5.1, D7.2 and D7.3, to organize the next technical meeting and second project review.

## WP2 – Use cases, specifications and databases

- Activity overview:  
Idiap contributed to the elaboration of use cases scenarios but also to the specification and the recording of the database.
- Description of last 6 month activity:  
Idiap designed the recording procedure and protocols for the MOBIO database. Idiap started also the database collection in every recording sites by sending a collaborator to bring the recording device and to instruct the partners on the recording procedure. Idiap is also coordinating the data collection in each site and archiving the recorded data regularly.
- Future work:  
Idiap plans to complete the first phase of the data collection and to initiate the second one.
- Publications: n/a

## WP3 – Uni-Modal Segmentation and Authentication

- Activity overview:  
Idiap is carrying research on face localization and face authentication.
- Description of last 6 month activity:  
Idiap delivered a state-of-the-art face detection and face authentication system with D3.1 and D3.2. Idiap is also exploring more advanced face detection/localization and face authentication techniques based on alternative feature representation techniques.
- Future work:  
Idiap is planning to explore further the use of the local frequency band decomposition technique for parts-based face authentication and to deliver it for D3.3/D3.4.
- Publications (to appear):
  - C. McCool and S. Marcel, “Parts-Based Face Verification using Local Frequency Bands”, International Conference on Biometrics (ICB), 2009
  - G. Heusch and S. Marcel, “Bayesian Networks to Combine Intensity and Color Information in Face Recognition”, International Conference on Biometrics (ICB), 2009

## WP4 – Bi-Modal Authentication and Model Adaptation

- Activity overview:  
Idiap is carrying research on bi-modal authentication and the adaptation of face recognition systems.
- Description of last 6 month activity: none
- Future work:  
Idiap is planning to contribute to the delivery of a baseline bi-modal authentication system, and to the delivery of baseline model adaptation systems.
- Publications: none

## WP5 – Scalability

- Activity overview:  
The role of Idiap in this WP is to study the scalability of face localization on mobile devices.
- Description of last 6 month activity: none
- Future work:  
Idiap will provide a scalable version of the baseline frontal face localization system delivered with D3.2.
- Publications: none

## WP6 – Integration and Demonstration

- Activity overview:  
Idiap is participating to the integration efforts of the MOBIO prototypes and demonstration systems.
- Description of last 6 month activity:  
Idiap developed the A/V acquisition tool on a mobile device for the database collection as well as some automatic data validation tools to assess the quality of the recordings.
- Future work:  
Idiap is going to investigate the porting of a scaled face detection system on both a Linux-based N810 and a Symbian-based N93i devices.
- Publications: none

## WP7 – Dissemination and Exploitation

- Activity overview:  
Idiap contributes (1) to the dissemination activities of the project through the publication of scientific papers and the participation to international evaluations, (2) to the exploitation activities of the project by the development of demonstration systems.
- Description of last 6 month activity:  
Idiap participated to the ICB 2009 face verification competition organized by UniS and sponsored by MOBIO.
- Future work:  
Idiap is planning to attend ICB 2009 to advertise the MOBIO project and to present the accepted publications.
- Publications (to appear):
  - N. Poh and al., “ICB 2009 Face Verification Competition”, International Conference on Biometrics (ICB), 2009