



MOBIO

MINUTES

MOBIO Technical Meeting

September 15-16, 2009

09:30 am – 13:00 pm

Location: EyePmedia - Avenue des Baumettes 15 - 1020 Renens - Switzerland

Meeting called by S. Marcel (Project Coordinator)

14 Confirmed Attendees for the meeting: S. Marcel (IDIAP), C. McCool (IDIAP), V. Devanthéry (IDIAP), A. Larcher (UAPV), C. Lévy (UAPV), H. Cernocky (BUT), P. Matejka (BUT), O. Glembek (BUT), John Haddon (UNIS), J. Dilay (EPM), C. Bandeirinha (EPM), Timo Ahonen (UOULU), Markus Turtinen (VISI), Phil Tresadern (UMAN)

3 Apologies for the meeting: J. Kittler (UNIS), N.Poh (UNIS), S. Rey (IDEA)

MOBIO Review Meeting

September 16-17, 2009

14:00 – 16:00

Location: EyePmedia - Avenue des Baumettes 15 - 1020 Renens - Switzerland

Meeting called by O. Nielsen (EU, Project Officer)

20 Confirmed Attendees for the review: O. Nielsen (EC), E. Christodoulou (EC), J. E. Kristensen (EC), B. B.A.M. Schouten (EC), S. Marcel (IDIAP), C. McCool (IDIAP), V. Devanthéry (IDIAP), A. Larcher (UAPV), C. Lévy (UAPV), J-F. Bonastre (UAPV), J. Haddon (UNIS), H. Cernocky (BUT), P. Matejka (BUT), O. Glembek (BUT), S. Rey (IDEA), J. Dilay (EPM), C. Bandeirinha (EPM), Timo Ahonen (UOULU), Markus Turtinen (VISI), Phil Tresadern (UMAN)

2 Apologies for the review: J. Kittler (UNIS), N.Poh (UNIS)

MOBIO Technical Meeting & Review Meeting

Items on the agenda

Welcome

All confirmed attendees are present except Dr Norman Poh (sickness). UNIS is represented at the meeting and at the review by John Haddon. Markus Turtinen from Visidon is also attending this MOBIO meeting for the first time.

Action points

All critical action points from previous meeting are completed.

General Information

Due to the inclusion of Visidon, the DoW (new WP6 deliverables D6.4, D6.5 and D6.6) has been revised and accepted by all the partners and the EU commission. The revised consortium agreement has been sent for signature to all partners.

Oulu raised the issue that this revised Consortium Agreement uses a different terminology than the original one. To fix this issue we agreed to add in these minutes the following statement that should be approved by the project board.

*In the new consortium agreement, "pre-existing know-how" means
"background" and "knowledge" means "foreground".*

This statement has been submitted for approval to all project board members (PC, PM, UNIS, UMAN, UOULU, BUT, UAPV, IDEA, EPM, VISI).

Demonstration – WP6 (D6.3) - EPM

A demonstration system (see slides WP6-EPM-D63-status) based on a banking use case scenario has been implemented successfully. EPM provided the following feedback:

Module	Integration	Status	Problems
Face detection	Simple and fast	running	None
Facial feature localisation	Complex due to a large number of libraries to be linked	running	Very slow
Face verification	Correct	running	Difficult to train an accurate model and unstable results
Speaker verification	Minor delay due real-time constraint	running	Sensitivity of the threshold

Visidon

Markus Turtinen presented Visidon activities (see slides VISIDON-presentation). Visidon is now officially part of MOBIO. It was decided to give to Visidon an access to the SVN.

Advanced Uni-Modal – WP3 (D3.3 and D3.4) - UOULU

All advanced systems (D3.3) have been delivered on Sep 15 2009. The evaluation is starting and a schedule for D3.4 was proposed (see slides WP3-UOULU-D33-34-planning).

Advanced Fusion Systems – WP4 (D4.3) – UNIS (remotely)

It has been agreed to use the BANCA database (protocol P) at least and if possible MOBIO (phase I). Both IDIAP and UNIS will provide an advance fusion system (see slides WP4-UNIS-D43-D47-planning). IDIAP will provide either an early feature-based fusion system or a model-based fusion system. UNIS will provide score-based fusion system at the frame level taking somehow the correlation between modalities (a simple T-norm at the access-level or fusion level will not be relevant).

Model Adaptation – WP4 (D4.5, D4.6 and D4.7) – UNIS (remotely)

D4.5 and D4.6 have been delivered. For advanced adaptive systems, UNIS will investigate co-training (see slides WP4-UNIS-D43-D47-planning). For this UAPV will provide limited support to UNIS on the baseline speaker verification system to help understanding how to re-train a new model from data as it is required for co-training. IDIAP will investigate the use of multiple models either condition or pose dependant. UMAN should confirm if they can provide head pose estimation from facial feature localisation (at least on BANCA videos) to help for multi-model. D4.7 will be again addressed at the next meeting.

MOBIO Protocol

A tentative protocol was discussed for the MOBIO database (phase I) between the partners. A protocol was agreed (see slides WP2-IDIAP-protocol-discussion) and will be implemented and distributed by Chris hopefully by Oct 9.

Scalability – WP5 (D5.1) – UAPV

Scalable systems should be uploaded on the SVN on Nov 15 2009 as well as an initial report as specified by UAPV (see slides WP5-UAPV-status-and-planning).

- DIAP and UOULU: scalable face detector/localizer
- UMAN: scalable facial feature localization
- UNIS: scalable face verification
- UAPV and BUT: scalable speaker verification

WARNING: this should be taken very seriously. These systems will be used for the integration of D6.4, D6.5 and D6.6 by Visidon. This is a very strong recommendation from the reviewers: if we don't provide evidence that scalable systems have been integrated MOBIO will have failed.

Database – WP2 – IDIAP

The phase I of the MOBIO database collection is completed (see slides WP2-IDIAP-database-status-and-planning) and the database has been distributed at the meeting. The phase II of the MOBIO database collection started and the planning was established (see same slides). Some delays might be possible at UMAN or IDIAP due to technical problems with recording devices.

ICPR 2010 Contest

On Sep 28, the MOBIO contest proposal was accepted by the ICPR 2010 contest chairs. MOBIO will then organize the “MOBIO face and speaker verification evaluation” on the MOBIO database (phase I).

Next Meeting

The next meeting will be held in Brno (CZ) and will be organized by BUT. A Doodle link was created to setup a date (<http://www.doodle.com/7hh2zmp92qp7afxy>). During this meeting mainly scalability aspects will be addressed and take decision about the algorithms to be provided for integration on the mobile device.

Next Action Points

WHO	WHAT	WHEN
IDIAP	Advanced Fusion Systems – D4.3	m24 (Dec.09)
IDIAP+UNIS	Advanced Model Adaptation Systems – D4.7	m26 (Feb.10)
UOULU	Report on advanced uni-modal systems – D3.4	m22 (Oct.09)
UAPV	Scalable uni-modal systems – D5.1	m24 (Nov.09)
UMAN	New CA signed and sent to IDIAP	ASAP
UNIS	New CA signed and sent to IDIAP	ASAP
BUT	Report on dissemination activities - D7.4	m26 (Feb.10)
VISI	Initial Mobile Integration – new D6.4	m26 (Feb.10)
all	Send slides to PC	ASAP
all	Text for D3.4 sections X.1 and X.2	Sep.28
all	Experiments done for D3.4	Oct.2
all	Draft of D3.4 complete report with sections X.3 and X.4	Oct.9
all	Deadline for sending comments on the draft D3.4	Oct.16
UOULU	Final version of D3.4 ready	Oct.23
VISIDON	Provide feedback on the potential use of the new N900 for D6.4, D6.5 and D6.6. Ideally, the N900 should meet the following requirements: computing (floating-point unit), memory (RAM and storage), audio/video capture and quality of devices. If the N900 is not adapted, identify and propose alternatives with similar requirements.	Oct.30
VISIDON	Provide feedback on the EPM A/V framework used for D6.3 and its use for D6.4, D6.5 and D6.6.	Oct.30
VISIDON	Provide feedback on the possibility for VISIDON to provide to partners an A/V framework (running Linux), possibly inspired by the EPM one, to develop and to test scalable modules.	Oct.30
IDIAP	Chris will send protocol files for the MOBIO database phase I.	Oct.9
all	Provide feedback to Chris on this protocol	Nov.10
WP leaders	Complete QR3 on the SVN	Sep.30
EPM	Carlos update the SVN with all needed information about D6.3 and ready to provide support to IDIAP developers.	ASAP
IDIAP	PC ask IDIAP developers to reproduce D6.3.	ASAP
IDIAP	PC ask IDIAP sys admin if possible to distribute the MOBIO database (100 Gb) on a SVN	ASAP

IDEA	Planning for organizing the MOBIO 2010 Workshop.	ASAP
all	Send constraints (conferences, holidays, ...) to PM (pmgr@idiap.ch) to help organizing the MOBIO Workshop.	ASAP
each partner	Identify and provide 2 A/V samples of the MOBIO database to Chris to disseminate on the website.	Oct.19
IDIAP	Prepare a poster/flier on the MOBIO database to present at conferences.	ASAP
IDEA	Recontact Think-Trust	ASAP
IDIAP	Contact ACTIBIO about common use cases and workshop	ASAP
VISIDON	Explore possible use cases with Nokia or Samsung	ASAP

Review

The recommendations from the reviewers are summarized below. We will receive in a couple of weeks the formal letter with the official recommendations.

The reviewers acknowledged the work and complimented the consortium for the high quality of the research and the excellence of scientific dissemination activities.

The **main recommendations** are to:

1. bring the technologies to mobile (real mobile not simulated on PC) with realistic, detailed and workable use case(s) scenario,
2. re-enforce industrial participation,
3. describe an assesment methodology for the scalability,
4. define clear use cases,
5. draw exploitation plans.

Several advices were provided:

- the companies in the CoI could be used to implement the use cases,
- clear use cases should be defined to attract new members in the CoI,
- we could contact healthcare projects to identify possible use cases,
- we have to inform the reviewers if the demonstration architecture should be revised by Visidon for the mobile integration,
- a written answer to the official recommendations received.