

MINUTES

The following representatives have been invited to the GA:

Mauro Dell'Orso – UNIPi, Chair	present in Pisa
Kostas Kordas – AUTH, Member	connected by skype from AUTH
Alessandro Iovene – CAEN, Member	present in Pisa
Betty Magnin – CERN, Member	connected by skype from CERN
Giovanni Calderini – CNRS, Member	present in Pisa
Petros Soukoulas – PRIELE, Member	Absent
Simone Donati – UNIPi, Member	present in Pisa

The following representatives have been invited to the EB:

Mauro Dell'Orso – UNIPi, Project Coordinator, Chair	present in Pisa
Kostas Kordas – AUTH, WP 7 Coordinator, Member	connected by skype from AUTH
Dimitrios Sampsonidis – AUTH, WP 8 Coordinator, Member	connected by skype from AUTH
Paola Garosi – CAEN, WP 2 Coordinator, Member	absent for maternity (CAEN)
Francesco Crescioli – CNRS, WP 6 Coordinator, Member	connected by skype from Paris
Andreas Sakellariou – PRIELE, WP 1 Coordinator, Member	connected by skype from Athens
Marco Piendibene – UNIPi, WP 5 Coordinator, Member	present in Pisa
Chiara Roda – UNIPi, WP 4 Coordinator, Member	present in Pisa
Betty Magnin – CERN, WP3 Coordinator, Member	connected by skype from CERN

Other Participants:

P. Giannetti, P. Luciano – INFN Pisa	present in Pisa
K. Mermikly - Prisma Electronics	connected by skype from Athens
C. Gentsos, I. Maznas – AUTH	connected by skype from AUTH
S. Citraro, C.L. Sotiropoulou, G. Volpi, S. Gkaitatzis, UNIPi	present in Paris

The slides are available at the site

<https://agenda.infn.it/conferenceDisplay.py?confId=11192>

This is the Agenda:

General Assembly

- 14:00 - 15:00 Last Report & Work plan for 2016 *1h0'*, Paola Giannetti (INFN, Pisa)

Executive Board

- 15:00 - 15:20 Software activity at AUTH *20'*, Konstantina Mermikli (Prisma)
- 15:20 - 15:40 Mezzanine design at AUTH *20'*, Andreas Sakellariou (Prisma)
- 15:40 - 16:00 Conclusive summary of 2 year activity at AUTH *20'*, Naoki Kimura (AUTH)
- 16:00 - 16:20 Firmware for the AMBSLP *20'*

Here follows a synthesis of the discussed arguments:

Secondments/ Declaration of Conformity - talk Paola Giannetti

The list of future secondments is discussed; necessary changes are discussed and approved to be submitted to the PO.

Internal redistribution of money is discussed: since AUTH will have to produce several months of contracts that in the initial plan were associated to CAEN and the money for those contracts was sent in 2015 at CAEN, AUTH asks to receive money from CAEN, to avoid the pre-financing of those contracts. Everybody agrees about this plan: if the changes will be approved by the PO, the requested money should be sent to AUTH by CAEN.

The list of declarations of conformity is reviewed.

A new agreement for management money is established in favour of the project coordinator (UNIFI). A calculation of salary changes is discussed to guarantee they are compatible with the project budget.

Conference – Paper talk Paola Giannetti

Ongoing papers are presented. The list of items implements perfectly our plan discussed and approved at the last GA. The list of authors is proposed, discussed and approved for each item. Here follows the list:

- Highly Parallelized Pattern Matching Execution for Event Real Time Reconstruction S. Citraro, N. Biesuz, P. Giannetti, P. Luciano, H. Nasimi, M. Piendibene, C.L. Sotiropoulou, Member, IEEE and G. Volpi published in April on TNS Paper on Amboard_v3, signed by highly contributing researchers (Annovi added recently).
- Fast Tracker for Hadron Collider Experiments FP7 PEOPLE 2012 IAPP: Grant Agreement Number 324318 FTK; IAPP Consortium; submitted to DATE not published but our project has been invited to DATE (Booth + one talk by Calliope).
- Highly Parallelized Pattern Matching Execution for the ATLAS Experiment; signed by all the collaborators that worked on the AM boards (HW SW) submitted to ATLAS & TNS for Real Time
- A coprocessor for the Fast Tracker Simulation; signed by Christos and people working on the SLP1; submitted to Real Time 2016; plan to publish on TNS for Real Time
- Brain Emulation for Image Processing; signed by people working on SW and HW for image processing; submitted to Real Time 2016 plan to publish on TNS for Real Time
- High Performance Embedded System for Real Time Pattern Matching; signed by people working on HW for image; VCI proceeding
- Performances of a Real time Multipurpose 2 Dimensional Clustering Algorithm Developed for the ATLAS Experiment; signed by people working on 2D clustering; Mocal proceeding
- FTK; signed by all FTK people; Mocal proceeding.

The new interesting collaboration with students from computing science and Alessandra Retico for MRI imaging inside WP5 is shortly presented.

Deliverables & Milestones

Deliverables are discussed and assigned to people.

In red are signed the person in charge of these documents and the conferences where they will be submitted.

The deliverables just submitted in the recent progress report are:

D.4.4. Trigger table for demonstrator with performance prediction Pub PU M25 Public Note
<https://cds.cern.ch/record/1755840/files/ATL-DAQ-INT-2014-005.pdf> ATLAS Public Note
 D.5.1. Infrastructure at CAEN for Image Processing R RE M26 PAOLA
 D.4.5 SLP1 architecture simulation Summary IEEE Real Time-Paola Pub PU M28 - Paper for Christos the
 D.5.2. Software & firmware ready for training and image processing R RE M30 PAOLA
 Summary IEEE Real Time-Paola

The Deliverables in the second half of the year 2015 are:

D.1.2. 1st FTK production assembled at PRIELE TNS approved R RE M32
 D.3.2. FTK first production commissioned Summary IEEE Real Time Pub PU M34 conference Paola Pierluigi/
 D.5.3. Performances of natural still image processing poster Vienna Pub PU M34 conference Calliope

The Milestones plan is:

2015 Program

- M.4.2. Trigger_performance_ok UniPisa M
- M.4.3. SLP1 architecture review UniPisa M
- M.1.3. 1° production ok at Priele PRIELE M
- M.1.4. SLP1 prototype ok at Priele PRIELE M
- M.5.1. HW still-image processor ok UniPi
- M.3.2. 1° production ok at Cern CERN M3
- M.6.1. CAEN PS Atlas review CNRS M32 c

D.6.3.	Optimized power supplies and their characterization	Pub	PU	Calderini	M34	Nov.
D.1.3.	SLP1 prototype constructed at PRIELE	Pub	PU	Christos	M36	Jan.
D.4.6.	SLP1 detailed simulation	R	RE	Christos-Paola	M38	Mar.
D.5.4.	Results of tests on movie processing	Pub	PU	Calliope-Paola	M40	May
D.4.7.	Test Vectors for the SLP1 based FTK	R	RE	Paola	M42	July
D.1.4.	2 nd FTK production assembled at PRIELE	R	RE	Panagiotis	M42	July
D.3.3.	FTK second production commissioned	Pub	PU		M46	Nov.
D.2.6.	SLP1 fully integrated	Pub	PU	Christos	M48	Jan.
D.5.5.	Results of tests on medical image processing	Pub	PU	Calliope	M48	Jan.

MILESTONES & DELIVERABLES

M.5.2.	Natural movies processed by AM	UniP
M.5.3.	Medical images for AM	UniP
M.1.5.	2 nd production ok at Priele	PRIE
M.3.3.	2 nd production ok at Cern	CER
M.2.5.	SLP1 ok at Caen	CAE

(1) OUTREACH – TOK –

Milestones: results verification of Open Days, Workshop day, Summer Schools
 results: very successful → see previous GA report (Nov 2015) for 2015 activities.

(2) Soft Trainings → see previous GA report (Nov 2015) for 2015 activities.

(1) Next FTK Workshop, Training, Open day, Workshop for the public & IAPP school

The outreach schedule already performed is presented and future events of the 2016 are discussed again.

D.7.1. IAPP project open days	Kostas/Paola/Francesco	UNiPI/LPNHE/AUTH	R	PU	M7, M19, M31, M43	August
D.7.2. Workshop days (for medical imag people)		CERN	R	PU	M5, M17, M29, M41	June
D.7.3. Summer school weeks (AUTH in lab)	Kostas		R	PU	M6, M18, M30, M42	July
D.7.4 D.8.3 World wide web site for dissemination			R	PU	M6, M18, M30, M48	July
Status of Web site		Kostas/Paola/Simone				
D.8.1. FTK Workshops (@LPNHE)	Francesco		R	RE	M1, M13, M36, M46	March
D.8.2. Trainings (@LPNHE. Now, last is CERN)	Francesco		R	RE	M1, M5, M9, M19, M26, M47	
SOFT TRAININGS:						
Intellectual Property	https://www.iprhelpdesk.eu/webinars					FTK session at Hipeak CSW in Milan September
ETHICS - MEDICAL IMAGING	Paola					
SCIENTIFIC ENGLISH	Paola					
GENDER ISSUES	→ in March during Master Class → very successful					
MATHEMATICA	Mauro					
CAD ALTUM	Andreas					

The participation to Date with a Boot and a talk by Calliope and the school event “Le Ragazze e la scienza” is described.

We have decided to have the GA-EB, the FTK workshop (open to external researchers) and the training all at CERN (Geneva), collecting all the events in the same week In July.

Open Days will be done like in 2015, at Pisa, LPNHE and AUTH.

The school has been decided to be the recent event “Le ragazze e la Scienza” held in Pisa with FPGA lessons and laboratory with evaluation boards.

Mermikli, Sakellariou, Kimura and Greco reported about their activities during secondments (Mermikli and Sakellariou) and recruitments (Kimura and Greco). Please see their slides for details.