

Minutes from the MLQA 2010 Meeting

1. Introduction.

The second annual meeting of the ERCIM Working Group on *Models and Logics of Quantitative Analysis (MLQA)* was held as part of FLoC in Edinburgh on July 9th, 2010.

The theme of the meeting was: *Static Analysis versus Model Checking: similarities, differences, synergies* and the aim was to create a vibrant event consisting mainly of a number of invited talks and a poster session.

The invited talks covered some of the historical developments, surveyed the links established, established state-of-the-art, identified the problems still worth pursuing and gave a perspective on the implications and (novel) applications that can be foreseen.

2. Programme.

- Bernhard Steffen. *From the How to the What: Static Analysis via Model Checking.*
- Flemming Nielson. *Model Checking is Static Analysis of Modal Logic.*
- Coffee & Poster Session
- Marta Kwiatkowska. *Quantitative Abstraction Refinement.*
- Joost-Pieter Katoen. *Invariant Generation for Probabilistic Programs.*
- Arie Gurfinkel. *Partial Models and Software Model-Checking.*
- Orna Grumberg. *The 2-valued and the 3-Valued Abstraction-Refinement Frameworks in Model Checking.*
- Lunch
- David Monniaux. *Policy iteration for static analysis.*
- Michael Huth. *From validating quantitative models to generating valid ones.*
- Coffee & Poster Session
- MLQA Business Meeting (open to all attendees) about the future of MLQA and future research collaborations

3. The Business Meeting

3.a. Presentation of ERCIM and MLQA

Flemming Nielson gave an overview of ERCIM, the aims of MLQA and the expectations of an ERCIM Working Group: annual meetings, mobility of young researchers, and the formulation of EU proposals.

3.b. Highlights of the discussion about the aims and the future of MLQA

- Proposals of EU projects is a good idea, and would improve synergy. Proposing challenges and specific problems would be good. What about people not in this room - simplicity is important.
- Writing surveys e.g. ACM surveys is important and useful. Simplicity is very important. Besides we should discuss new trends and

technologies.

- One meeting a year is not enough for collaboration – the human link is very important for collaboration to get started.
- Having more meetings and subgroups will be great.
- Putting things together is good. Summer schools would go very well with writing surveys.
- Poster session is a good idea; it saves time and creates chances for collaboration. Website should be more interactive. Choosing a central location would be practical for meeting.
- We should meet more often.
- Really like the format of this meeting. Surveys are good for introducing junior researchers to the topic.
- Instead of many short talks, I would prefer fewer longer ones, e.g. tutorials.
- Format is fine, maybe would leave more time for discussion after each talk. Great if the speakers could provide one/two papers in advance (already published), so people can come more prepared - to follow the talks. Project proposals: these will come when time is mature enough, and the community is set up.
- Having small groups is a good idea, however it should be a *network* of smaller groups. Otherwise, it would lead to isolation of groups.
- Call for collaborators could be good.
- Continuous modeling was missing in the talks.
- I am against having subgroups. We should organize summer schools.
- Besides posters, there should also be tool demonstrations.
- If only there could be a 5 minute talk for each poster.

Other notes:

- Keep the mailing list monitored.
- Make MLQA attractive for non-European institutions and researchers as well.
- Having themes each year was and is a good idea.
- One of QAPL group could enter, and bring some collaboration.
- Something for the biologically interested in the steering committee.

3.c. Chair and Steering Committee

MLQA elected a Chair that reports to ERCIM:

- Flemming Nielson

MLQA also elected a Steering Committee to ensure that the many good suggestions of the previous discussion can be put into action:

- Flemming Nielson (Chair)
- Diego Latella
- Joost-Pieter Katoen
- Herbert Wiklicky

- Erik de Vink
- Catuscia Palamidessi

4. Attendees

The meeting was attended by the following scientists:

First Name	Surname	Affiliation
David	Monniaux	CNRS/Verimag
Michael	Huth	Imperial College, London
Hanne Riis	Nielson	DTU
Ender	Yüksel	DTU
Piotr	Filipiuk	DTU
Orna	Grumberg	Technion
Arie	Gurfinkel	Soft Eng.Inst/Carnegie Mellon
Marta	Kwiatkowska	University of Oxford
Arnaud	Jobin	University of Rennes/IRISA
Daniel	Wagner	Imperial College, London
Matthew	Hennessy	Trinity College, Dublin
Michele	Loreti	Universita Di Firenze
Diego	Latella	CNR/ISTI 'A-Faedo'
Chiara	Bodei	Universita 'Di Pisa
Roberto	Zunino	Universita' Di Trento
Erik	de Vink	CWI & TU Eindhoven
Josée	Desharnais	Universite Laval, Quebec
Lijun	Zhang	DTU
Fuyuan	Zhang	DTU
Lei	Song	ITU of Copenhagen
Christoffer	Sloth	Aalborg University
Herbert	Wiklicky	Imperial College, London
Igor	Cappello	Univerity of Trento
Oana	Andrei	University of Glasgow
Vashti	Galpin	University of Edinburgh
Massimo	Callisto De Donato	University of Camerino
Federico	Buti	University of Camerino
Michael	Smith	DTU
Yifei	Bao	Stevens Institute of Technology
Catuscia	Palamidessi	INRIA
Joost-Pieter	Katoen	RWTH Aachen University
Bernhard	Steffen	TU Dortmund
Flemming	Nielson	DTU

Flemming Nielson

Chair of MLQA