

The AutoMathA Brainstorming and Cooperation Days
on Mu-Calculus took place
on 28-29 May 2008 in Lausanne, Switzerland.

It gathered 18 researchers in the field. Most of them gave 30' to 60' talks, which were highly appreciated.

Since the topic was rather narrow, everyone was aware of the background necessary to understand the results shown. So this led to many more thought-full exchanges than what is expected at usually wider conferences. In particular several working groups formed spontaneously.

It may be noticed that some participants regretted that they did not have enough time to collaborate with each other. As a matter of fact, they submitted to me the idea that for a next such workshop it would be more appropriate to allow an extra day without talks, however providing facilities for brainstorming activities.

Among all participants Igor Walukiewicz, although he did not give a talk, was very much appreciated as he was always asking many questions.

On Wednesday and Thursday we had lunch outdoor at the University restaurant, and on Wednesday evening, a diner together at a Restaurant in downtown Lausanne.

All in all, everyone was very happy about the meeting, most asking for a second meeting to take place on this very same topic next year.

Programme

28-29 May

Unitheque, Room 4201

Timetable:

(Talks are of 30' or 60' + 15' discussion)

Wednesday 28 May

09h45 - 11h00 : Clemens Kupke, "Coalgebra Automata"

11h00 - 11h15 : Coffee Break

11h15 - 12h30 : Luigi Santocanale, "O_f-Adjoint as Automata"

14h00 - 15h15 : Dietmar Berwanger, "Language Elements for Reasoning About Games"

15h15 - 16h00 : Giacomo Lenzi, "The Complexity of Mu-Calculus on Transitive Graphs"

16h00 - 16h15 : Coffee Break

16h15 - 17h00 : Luca Alberucci, "On Modal Mu-Calculus and Gödel-Löb Logic"

17h00 - 17h45 : Felix Klaedtke, "Alternation Elimination by Complementation"

17h45 - 18h30 : Thomas Studer, "Canonical Completeness for Infinitary Mu-Calculus"

Thursday 29 May

09h15 - 10h00 : Jacques Duparc, "Mu-Calculus Beyond Borel"

10h00 - 10h45 : Marcin Jurdzinski, "Recent Advances in Algorithms for Solving Parity Games"

10h45 - 11h15 : Coffee Break

11h15 - 12h30 : Martin Lange, "Automata in Practical Decision Procedures for mu-Calculi"

14h00 - 14h45 : Tom Henzinger, "Quantitative Generalizations of Languages"

14h45 - 15h30 : Filip Murlak, "Weak Index versus Borel Rank"

15h30 - 15h45 : Coffee Break

15h45 - 16h30 : Gaelle Fontaine, "Continuous Fragment of the Mu-Calculus"