REPORT ON NCMA 2011

3rd Workshop on Non-Classical Models of Automata and Applications
18-19 July 2011, Milano, Italy

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NCMA 2011, the 3rd workshop in this series, took place at M   from July 18-19, in S   R   of the main building of U   `   S   M   , a nice room for representation and meetings in a historical building.

The organizing committee consisted of R   F   , M   H   , C -M   , F   O   , B   P   , as well as L   S   , and I   G   . The workshop was supported by I   ¨ C -   T   U   ¨ W   . NCMA 2011 was attended by 32 participants from 10 countries, with details as follows:

DE	10	CH	3	LV	2	CZ	1	HU	1
IT	10	CA	2	AT	1	FR	1	SK	1

The scientific program consisted of 2 invited lectures and 12 contributions selected from 18 submissions from 9 countries as shown below (C country, I invited, A accepted):

C	I	A	C	I	A	C	I	A	C	I	A
CA		$1\frac{1}{6}$	DE		3	IT		2	RS		1
CH		2	FR		$\frac{1}{3}$	LV	1		SK	1	
CZ		1	HU		$\frac{5}{6}$	RO		$\frac{1}{6}$			

It can be found at
`http://www.informatik.uni-giessen.de/ncma2011/.`

The workshop was opened on Monday morning by C   M   , introducing NCMA, welcoming participants, and giving information on organization.

The first invited lecture *'Quantum Finite Automata'* by A   A   was a very good survey on quantum finite automata (QFA), in particular on their space efficiency, on the difference between 1-way and 2-way QFA, and relations between QFA and quantum Markov chains. With the second invited talk, *'An Alternating Hierarchy for Finite Automata'*, V   G   gave an excellent presentation on the infinite hierarchy of state complexity classes of 2-way alternating finite automata, also solving several open problems. Good and interesting talks

were given by M   P   B   on regularity of languages defined by formal series, and on normal forms for unary probalistic automata, by A   F   on Parikh automata and related models, by M   W   on string assembling systems, and by O   ˇ   K ´   on bioautomata.

The proceedings, edited by R   F   , M   H   , C   M   -   , F   O   , and B   P   , containing all invited talks and contributions, have been published as Band 282 of Ö   C   G   -   . In the coffee breaks coffee, mineral water, juice, and pastries were offered. On Monday evening there was a social dinner in the restaurant C   P   -   , about 2 minutes walk from the conference site. There we were offered a choice of typical regional dishes and wines. It lasted well until 24 h. Weather was warm and sunny, with highest temperatures around 25°C.

In summary, the workshop was successful, at a high level, and in a nice atmosphere. Next NCMA will be held in 2012 in F   , Switzerland.