Final Programme: Detailed View

Saturday 10th

08.00-09.00	Registration	
09.00-09.15	Welcome message	
09.15-10.15	**Invited Talk 1**	**Vincent Blondel**: Université Catholique de Louvain – Belgium *Discrete Dynamical Systems and Matrices Products*
10.15-10.30	Short paper 13	**Jan Baetens and Bernard De Baets** *Towards spatial irregularity in cellular automata*
10.30-11.00	Coffee break	
11.00-11.30	Full paper 2	**Patrick Ediger and Rolf Hoffmann** *CA models for target searching agents*
11.30-12.00	Full paper 3	**Rubens Zimbres and Pedro P.B. de Oliveira** *Dynamics of quality perception in a social network: A cellular automaton based model in aesthetics services*
12.00-12.30	Full paper 12	**Claudio L.M. Martins and Pedro P.B. de Oliveira** *Improvement of a result on sequencing elementary cellular automata rules for solving the parity problem*
12.30-14.00	Buffet lunch	
14.00-15.00	**Invited Talk 2**	**Jarkko Kari**: University of Turku – Finland *Classical Cellular Automata Theory: A Tutorial* **(Part I)**
15.00-15.30	Full paper 1	**Maurice Margenstern** *About the Garden of Eden theorems for cellular automata in the hyperbolic plane*
15.30-15.45	Short paper 1	**Andre Stauffer and Joel Rossier** *CA based self-testing and self-organizing configurable circuits*
15.45-16.00	Short paper 2	**Burton Voorhees** *Analysis of binary valued cylindrical cellular automata using roots of unity*
16.00-16.30	Coffee break	
16.30-16.45	Short paper 4	**Christopher Auer, Patrick Wüchner and Hermann de Meer** *Target-oriented self-structuring in classifying cellular automata*

16.45-18.30	IFIP WG 1.5 Meeting	
20.00-24.00	Evening dinner at Churrascaria Villa D'Aldeia	

Sunday 11th

09.00-10.00	**Invited Talk 3**	**Jarkko Kari**: University of Turku – Finland *Classical Cellular Automata Theory: A Tutorial* **(Part II)**
10.00-10.30	Full paper 6	**Kellie Evans** *Larger than Life's Invariant Measures*
10.30-11.00	Coffee break	
11.00-11.30	Full paper 7	**Heather Betel and Paola Flocchini** *On the relationship between boolean and fuzzy cellular automata*
11.30-12.00	Full paper 8	**Heather Betel and Paola Flocchini** *On the asymptotic behavior of fuzzy cellular automata*
12.00-12.30	Free interval	Videoconference set-up
12.30-14.00	Buffet lunch	
14.00-14.30	Free interval	Videoconference set-up
14.30-16.00	**Invited Talk 4**	**Stephen Wolfram** (in videoconference): Wolfram Research – USA *The History and Promise of Cellular Automata*
16.00-16.30	Coffee break	
16.30-16.45	Short paper 5	**Leonardo Tavares, Douglas Vieira, Rodney Saldanha and Walmir Caminhas** *Simulating car accidents with cellular automata traffic flow model*
16.45-17.00	Short paper 6	**Michal Seredynski, Romuald Kotowski and Pascal Bouvry** *Collective behaviour in spatio-temporally generalized prisoner's dilemma*
17.00-17.15	Short paper 7	**Miroslaw Szaban and Franciszek Seredynski** *How to design secure S-boxes based on 1D cellular automata*
17.15-17.30	Short paper 8	**Silvio Capobianco** *Some notes on Besicovitch and Weyl distances over higher-dimensional configurations*
19.00-23.00	Evening dinner at Temperos do Brasil	

Monday 12th

09.00-10.00	**Invited Talk 5**	**Martin Kutrib**: Universität Gießen – Germany *Cellular Automata and Language Theory*
10.00-10.30	Full paper 9	**Juan Andres Montoya and Carolina Mejia** *The complexity of sandpile prediction problems*
10.30-11.00	Coffee break	
11.00-11.30	Full paper 10	**Jan Podrouzek** *Stochastic cellular automata in dynamic environmental modeling: Practical applications*
11.30-12.00	Full paper 11	**Martin Kutrib and Andreas Malcher** *On one-way one-bit O(one)-message cellular automata*
12.00-12.30	Full paper 13	**Gina Oliveira and Luiz Gustavo Martins** *Some investigations about synchronization and density classification tasks in one-dimensional and two-dimensional cellular automata rule spaces*
12.30-14.00	Lunch: Feijoada	
14.00-15.00	**Invited Talk 6**	**Eric Goles**: Universidad Adolfo Ibáñez – Chile *Communication Complexity in Cellular Automata*
15.00-15.15	Short paper 9	**Kenichi Morita** *Simulating reversible Turing machines by 1-dimensional reversible cellular automata*
15.15-15.30	Short paper 10	**Eric Goles, Pierre Guillon and Ivan Rapaport** *Traced communication complexity of cellular automata*
15.30-15.45	Short paper 12	**Angelo Schranko and Pedro P.B. de Oliveira** *Derivation of one-dimensional, reversible, number-conserving cellular automata rules*
15.45-16.00	Closing remarks	
16.00-16.30	Coffee break	