

[Home](#)[Program](#)[Conference Venue](#)[Accommodation](#)[Contact](#)**Workshop Information**[Important Dates](#)[Invited Speakers](#)[Program](#)[Accepted Papers](#)**For authors & participants**[Paper Submission](#)[Registration](#)[Accommodation](#)[Conference Venue](#)[RC2014 conference](#)**Organization**[Committees](#)[Past Workshops](#)[Contact](#)**Program for AUTOMATA 2014****Sunday, 6 July**

16:00-19:00	Registration
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Monday, 7 July

9:10-17:00	Registration
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9:50-10:00	Opening
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10:00-10:45	Invited Talk (Chair: T. Isokawa)
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10:00-10:45	Prof.Jarkko Kari (University of Turku, Finland), On a cellular automaton and powers of $3/2$
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10:45	Theory of Cellular Automata I (Chair: T. Isokawa)
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10:45	Kenichi Morita, Language recognition by reversible partitioned cellular automata
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11:10	Ville Salo and Ilkka Törmä, Plane-Walking Automata
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11:35-15:00	Lunch break & excursion at Kokoen garden
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15:00-16:15	Application (Chair: J-B. Yunès)
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15:00	Pedro P.B. de Oliveira and Mauricio Verardo, Template Based Representation of Cellular Automata Rules
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15:25	Mirosław Szaban and Franciszek Seredynski, How to select in an appropriate way rules for cellular automata - based PRNG
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15:50	Yasusi Kanada, Self-organized 3D-printing Patterns Simulated by Cellular Automata
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16:15-16:45	Tea break
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16:45-	Stochastic Cellular Automata (Chair: P.P.B. de
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17:35	Oliveira)
16:45	Witold Bolt, Jan M. Batens and Bernard De Beats, Analysis of stochastic CAs with the use of deterministic rules
17:10	Matthew Macauley and Grady Thomas, Analysis and dynamics of bi-threshold functions
18:30-21:00	Dinner at Seiko Club

Tuesday, 8 July

9:10-16:00	Registration
9:15-10:00	Invited Talk (Chair: F. Peper)
9:15	Prof.Satoshi Murata (Tohoku University, Japan), Introduction to Molecular Robotics: Computation to control chemical systems
10:00-10:30	Tea break
10:30-11:45	Universality & Complexity (Chair: M.Kutrib)
10:30	Jarkko Kari, A universal cellular automaton without sensitive subsystems
10:55	Katsunobu Imai, Hisamichi Ishizaka, and Victor Poupet, 5-State Rotation-Symmetric Number-Conserving Cellular Automata are not Strongly Universal
11:20	Enrico Formenti, Kévin Perrot and Eric Rémila, Computational complexity of the avalanche problem on one dimensional Kadanoff sandpiles
11:45-13:30	Lunch break at Egret Castle Mille
13:30-14:45	Theory of Cellular Automata II (Chair: TBD)
13:30	Martin Kutrib, Andreas Malcher and Matthias Wendlandt, Real-Time Reversible One-Way Cellular Automata
13:55	Jean-Baptiste Yunès and Luidnel Maignan, Generalized FSSP on Hexagonal Tiling: Towards Arbitrary Regular Spaces
14:20	Ville Salo and Ilkka Törmä, Complexity of Conjugacy, Factoring and Embedding for Countable Sofic Shifts of Rank 2
14:45-15:15	Tea break

15:15-16:30	Elementary Cellular Automata I (Chair: G. Martinez)
15:15	Takao Namiki and Akane Kawaharada, Cumulative distribution of rule 90 and Lebesgue's singular function
15:40	Junta Matsukidaira and Daisuke Takahashi, Max-min-plus expressions for one-dimensional cellular automata with second order conserved quantities
16:05	Raju Hazari and Sukanta Das, On Number Conservation Property of ECA under α -Asynchronous Update
16:30-18:00	Committee meeting
18:30-21:00	Banquet at Restaurant Mikashio

Wednesday, 9 July

9:10-11:00	Registration
9:15-10:00	Invited Talk (Chair: K. Morita)
9:15	Prof.Martin Kutrib (Universität Gießen, Germany), Complexity of One-Way Cellular Automata
10:00-10:25	Elementary Cellular Automata II (Chair: K. Morita)
10:00	Genaro Martinez, Andrew Adamatzky and Harold McIntosh, Mobile self-localizations as a set of regular expression for Rule 54
10:25-10:55	Tea break
10:55-12:10	Dynamic Systems (Chair: T. Namiki)
10:55	Matthew Macauley and Henning Mortveit, Cycle Equivalence of Finite Dynamical Systems Containing Symmetries
11:20	Pablo Moisset de Espanés and Iván Rapaport, Strict majority bootstrap percolation on augmented tori and random regular graphs: experimental results
11:45	Jan Baetens and Janko Gravner, Introducing Lyapunov profiles of cellular automata
12:10-12:15	Closing

13:00-14:30

Lunch at Serena (Hotel Nikko Himeji)

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