



19th International Conference
Implementation and Application of
Automata (CIAA)
July 30–August 2, 2014 Giessen, Germany



Program

Tuesday, July 29, 2014	
16:00 – 20:00	Registration
18:00 – 21:00	Welcome reception

The welcome reception takes place at the Institut für Informatik, Arndtstraße 2. The conference will be held in Hörsaal IV (lecture hall IV) of the Natural Science Campus of the Universität Giessen, Heinrich-Buff-Ring 14.

Wednesday, July 30, 2014	
08:15 – 08:45	Registration
08:45 – 09:00	Opening of CIAA 2014
09:00 – 10:00	<i>Invited:</i> J. Esparza: <i>FPSOLVE: A Generic Solver for Fixpoint Equations over Semirings</i>
10:00 – 10:30	Coffee break
10:30 – 11:00	O. H.. Ibarra: <i>Ambiguity, Finite-Valuedness, and Lossiness in Acceptors and Transducers</i>
11:00 – 11:30	M. De Biasi and A. Yakaryılmaz: <i>Unary Languages Recognized by Two-Way One-Counter Automata</i>
11:30 – 12:00	E. Maia, N. Moreira, and R. Reis: <i>Partial Derivative and Position Bisimilarity Automata</i>
12:00 – 14:30	Lunch
14:30 – 15:00	F. Biegler and I. McQuillan: <i>On Comparing Deterministic Finite Automata and the Shuffle of Words</i>
15:00 – 15:30	K. Čevorová, G. Jirásková, and I. Krajňáková: <i>On the Square of Regular Languages</i>
15:30 – 16:00	Coffee break
16:00 – 16:30	F. Blanchet-Sadri, K. Goldner, and A. Shackleton: <i>Minimal Partial Languages and Automata</i>
16:30 – 17:00	A. Roche-Lima, M. Domaratzki, and B. Fristensky: <i>Pairwise Rational Kernels Obtained by Automaton Operations</i>
17:45 –	Visit of a Beer Brewery (including beer tasting)

Thursday, July 31, 2014	
08:15 – 09:00	Registration
9:00 – 10:00	<i>Invited:</i> G. Ch. Sirakoulis: <i>Cellular Automata for Crowd Dynamics</i>
10:00 – 10:30	Coffee break
10:30 – 11:00	I. Amorim, A. Machiavelo, and R. Reis: <i>Counting Equivalent Linear Finite Transducers Using a Canonical Form</i>
11:00 – 11:30	M. Dumitran, J. Gil, F. Manea, and V. Mitran: <i>Bounded Prefix-Suffix Duplication</i>
11:30 – 12:00	P. Kůrka and T. Vávra: <i>Analytic Functions Computable by Finite State Transducers</i>
12:00 – 14:30	Lunch
14:30 – 15:00	M. P. Bianchi, C. Mereghetti, and B. Palano: <i>On the Power of One-Way Automata with Quantum and Classical States</i>
15:00 – 15:30	J. Rashid and A. Yakaryılmaz: <i>Implications of Quantum Automata for Contextuality</i>
15:30 – 16:00	Coffee break
16:00 – 16:30	G. Jirásková, M. Palmovský, and J. Šebej: <i>Kleene Closure on Regular and Prefix-Free Languages</i>
16:30 – 17:00	S.-K. Ko and Y.-S. Han: <i>Left is Better Than Right for Reducing Nondeterminism of NFAs</i>

The city of Giessen, where CIAA 2014 takes place at the Natural Science Campus, lies 70km in the north of Frankfurt in the province Hessen in the beautiful Lahn valley.



The picture shows the “Grüne Haus” which lies in the “Botanischer Garten Gießen.” It is a historical botanical garden on four hectares and it is the oldest one in Germany still at its original site. It is open daily without charge.

Friday, August 1, 2014	
08:15 – 09:00	Registration
09:00 – 10:00	<i>Invited:</i> G. Pighizzini: <i>Investigations on Automata and Languages over a Unary Alphabet</i>
10:00 – 10:30	Coffee break
10:30 – 11:00	A. Demaille, A. Duret-Lutz, S. Lombardy, L. Saiu, and J. Sakarovitch: <i>A Type System for Weighted Automata and Rational Expressions</i>
11:00 – 11:30	J. Osterholzer: <i>Pushdown Machines for Weighted Context-Free Tree Translation</i>
11:30 – 12:00	M. Pittou and G. Rahonis: <i>Weighted Variable Automata Over Infinite Alphabets</i>
12:30 – 14:00	Lunch
14:00 –	Excursion und conference dinner

Saturday, August 2, 2014	
08:15 – 09:00	Registration
09:00 – 10:00	<i>Invited:</i> F. Otto: <i>Restarting Automata for Picture Languages: A Survey on Recent Developments</i>
10:00 – 10:30	J. Brzozowski and M. Szykuła: <i>Large Aperiodic Semigroups</i>
10:30 – 11:00	Coffee break
11:00 – 11:30	V. V. Gusev and E. V. Pribavkina: <i>Reset Thresholds of Automata with Two Cycle Lengths</i>
11:30 – 12:00	A. Fujiyoshi: <i>Recognition of Labeled Multidigraphs by Spanning Tree Automata</i>
12:00 – 12:30	A. Maletti: <i>The Power of Regularity-Preserving Multi Bottom-up Tree Transducers</i>
12:30 – 13:00	Business Meeting and Closing of CIAA 2014
13:00 – 15:30	Lunch